



Building knowledge

Job Order Contract Construction Task Catalog®

Book 1 CSI Divisions 01 - 26 November 2022

County of San Mateo
Roofing



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CTC Information:

- ☑ This Construction Task Catalog® was developed and customized by The Gordian Group, Inc. specifically for **County of San Mateo**, priced locally using current labor, material and equipment costs, and published in November 2022.
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MasterFormat™

- ☑ The tasks in this Construction Task Catalog are organized using CSI's *MasterFormat*.



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The Unit Prices Include:

LABOR COSTS:

- ☑ Labor costs include unloading equipment, materials, and tools, and transporting the same up or down 2 stories and 125' to reach the project site; layout; measuring and cutting to fit; performing the task; disposal of excess material; and time for lunch and breaks.
- ☑ Labor costs include direct labor through the working foreperson level at straight-time prevailing wage rates including fringe benefits and an allowance for Social Security and Medicare taxes, worker's compensation, unemployment insurance and employee benefits.

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- ☑ Labor costs are based on workers familiar with and skilled in the performance of the task following OSHA requirements.

EQUIPMENT COSTS:

- ☑ Equipment costs include all equipment required to accomplish the task.
- ☑ Mobilization is included for all equipment except large equipment (e.g. cranes, pile drivers, bulldozers, excavators, backhoes, bobcats etc.), which exclude mobilization.
- ☑ Equipment costs include all operating expenses such as fuel, electricity, lubricants, etc.

MATERIAL COSTS:

- ☑ Material costs include the cost of the material, delivery, and all incidentals and accessories integral to the installation.
- ☑ Material costs include manufacturer's and/or fabricator's shop drawings.
- ☑ Material costs for roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, concrete, etc. include an allowance for waste. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.

Complete and In-Place Construction:

- ☑ Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the task as described in the CTC.
- ☑ If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than 2 stories, the contractor will be paid for such crane or lifting equipment as a separate task.

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- ☑ Unit prices for imported materials (e.g. aggregate, sand, soil, etc.) include delivery up to 15 miles from the closest approved source.
- ☑ Unit prices include all fasteners such as anchor bolts, lag bolts, screws, adhesive, wedge anchors, expansion bolts, roofing clips (excluding hurricane clips) that are required. Fasteners listed separately in the CTC are for use with Owner furnished material and equipment or relocating or reinstalling existing material and equipment.
- ☑ Unit prices exclude more substantial mounting material such as threaded rod or angle iron unless the task description states otherwise.
- ☑ Unit prices for doors and windows, duct work, plumbing fixtures, seamless floors, countertops, flashing, pitch pockets, skylights, curbs, roofing, etc. include sealant and caulking.
- ☑ Unit prices include testing, calibration, balancing and the like required to ensure proper installation, construction and performance (e.g. compaction test for backfill, balancing of heating ventilation and air conditioning, pneumatic or hydrostatic testing, soaping of joints, disinfection and flushing, others as required). Use of owner supplied materials, equipment or tying into existing equipment/piping may justify testing, balancing, etc.

Demolition:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 stories into a truck, dumpster, or to an owner designated area, located within 125' of the project site.
- ☑ Unit prices for demolition exclude costs for hauling (See 01741900), dump fees (See 01741900), dumpsters (See 01741900), and trash chutes (See 01741900).
- ☑ If the item being demolished is attached to another item being removed and can be removed as one item, then that item shall not be priced as a

separate demolition task, unless the component alone must be demolished to accomplish the task (e.g. demolition of pipe includes pipe fittings unless the fitting must be demolished separately to accomplish the task; demolition of a wood door includes hinges, hardware, closures, kick plates, etc.).

- ☑ The description "replace" includes the demolition of the existing item and the installation of the new item.
- ☑ The descriptions "remove and relocate" or "remove and reinstall" includes the removal, cleaning of item and installation of the existing item in either the same location or another location.
- ☑ The description "reinstall" includes the cleaning and installation of the existing item.
- ☑ Salvageable materials remain the property of the Owner and shall be turned over as directed when specified in the Job Order.

The Adjustment Factors Include:

BUSINESS COSTS:

- ☑ Overhead costs, including, unless specifically excluded in the Contract Documents, but not limited to;
 - home office overhead
 - insurance, bonds, and indemnification
 - project meetings, training, management and supervision
 - mobilization and close-out for the contract and each Job Order and
 - project office staff and equipment.
- ☑ Profit.
- ☑ Subcontractor's overhead and profit.
- ☑ All taxes for which a waiver is not available including material sales tax and equipment rental.
- ☑ Employee or Subcontractor's wage rates that exceed the prevailing wage rates.

- ☑ Fringe benefits, payroll taxes, worker's compensation, insurance costs and any other payment mandated by law in connection with labor that exceeds the labor rate allowances.
- ☑ Cost of financing the work.
- ☑ Business risks such as the risk of a lower than expected volume of work, smaller than anticipated Job Orders, poor Subcontractor performance, and inflation or material cost fluctuations.

CONSTRUCTION RELATED COSTS:

- ☑ Services required to obtain filings and permits.
- ☑ Preparation and modification of proposals, sketches, drawings, submittals, as-built drawings, CADD drawings, microfilm, and other project records.
- ☑ Incidental engineering and architectural services.
- ☑ Office trailer and portable toilets for Contractor's use.
- ☑ Construction vehicles such as pick-up trucks, utility trucks, vans, flat bed trucks, tractors, trailers, etc.
- ☑ Storage devices or items such as gang boxes and containers for Contractor's tools, equipment and materials.
- ☑ Basic safety and warning signage, minor barricades (e.g., construction tape, etc.) and personnel safety equipment (e.g., hard hats, safety harnesses with lifeline or cabling, protective clothing, safety glasses, face shields, etc.).
- ☑ Meeting Owner security requirements.
- ☑ Excess waste including roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, siding, concrete, etc. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.
- ☑ Removing and returning Owner's furniture and furnishings (e.g. chairs, tables, pictures, etc. but excluding modular furniture, wall or ceiling attached or fastened devices or furnishings, safes or other furniture requiring disassembly).

- ☑ Sealing, windows, and openings with plastic to contain construction dust and debris within the work area.
- ☑ Daily clean-up.
- ☑ Final professional project clean-up.
- ☑ Working in extreme temperatures (below or above normal) or adverse conditions such as excessive rain, wind, sleet or snow.
- ☑ Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.
- ☑ Costs resulting from productivity loss.
- ☑ Differences in project size; complexity and location.
- ☑ All costs for other than discreet items of work specifically required to complete a particular Job Order.

PRICE VARIATIONS:

- ☑ Contractors may find differences in labor, equipment and material costs due to certain economic factors. Variations in labor cost can also result from labor efficiency, labor restrictions, working conditions and local work rules. Variations in material costs can also result from the quantity of material purchased, the existing relationship with suppliers, and because the materials have been discontinued or have become obsolete.
- ☑ While diligent effort is made to provide accurate and reliable up-to-date pricing, it is the responsibility of the Contractor to review and analyze the unit prices, and to calculate their Adjustment Factors accordingly, prior to bidding.

GENERAL COSTS:

- ☑ This list is not exhaustive and is intended to provide general examples of cost items to be included in the Contractor's Adjustment Factor as defined in the Contract.
- ☑ The only compensation to be paid to a Contractor for the unit price tasks will be:

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Published Unit Price	X	Installation (or Demolition) Quantity	X	Appropriate Adjustment Factor
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- No additional payments of any kind whatsoever will be made. All costs not included in the unit prices must be part of the Adjustment Factors.

General Interpretations:

WORKING HEIGHT:

- Typical working height for work other than masonry is up to 14' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for work below 14'.
- Typical working height for masonry work is up to 4' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for masonry work below 4'.

FIELD ENGINEERING:

- Surveying tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical controls.

ASSEMBLIES:

- Assembly unit prices take precedence over individual component pricing.

TESTING:

- Contractor will be paid for testing existing material, as required by the technical specifications and as directed by the Owner (record tests) at the unit price for the appropriate task. The cost of process quality control testing routinely performed by the Contractor is included in the unit prices for the individual tasks.

MISCELLANEOUS:

- For the purpose of calculating the quantity of a task, quantities are calculated on a per project basis. The quantity so determined shall be used for the task and all appropriate modifiers, unless the task states otherwise.
- Whenever there are alternative tasks that may be selected to complete work the Contractor shall select the most practical and economical tasks available (e.g. rental of equipment by weeks or months rather than days or painting by roller or spray rather than brush).
- Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories tasks and for certain electrical conduit and conduit accessories tasks. Only those tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated tasks. A non pre-priced task will not be allowed because of Restricted Working Space for any CTC task.
- Confined Working Space is defined according to the OSHA definition 29 CFR 1926.21(b)(6)(i): "Any space having limited means of egress, which is subject to accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere, including, but not limited to, storage tanks, process vessels, bins, boilers, ventilation and exhaust duct, sewers, underground vaults, tunnels, pipelines and open top spaces more than 4 feet in depth such as pits and tubs." The Contractor shall conform to all OSHA and Owner requirements for working in Confined Working Spaces. Required ventilation and air monitoring equipment tasks shall be priced from the CTC.
- Whenever a material, article or piece of equipment is identified in the CTC or in the specifications by reference to manufacturers' or vendors' names,

trade names, catalogue numbers, or make, the identification is intended to establish a standard. Any material, article or equipment of another manufacturer or vendor which performs satisfactorily the duties imposed by the general design may be considered equally acceptable provided that, in the opinion of the Owner, the material, article or equipment so proposed is of equal quality, substance and function. The Contractor shall not provide, furnish or install any proposed material, article or equipment without the prior written approval of the Owner. The burden of proof and all costs related thereto concerning the "or equal" nature of the substitute item, whether approved or disapproved, shall be borne by the Contractor.

SPECIFICATIONS:

- Specifications for tasks shall be interpreted as follows: All labor, material, equipment, spare parts, services, and work required by a specification shall be considered part of the unit price, unless the task description or technical specifications state otherwise.

Useful Information:

UNIT OF MEASURE DEFINITIONS:

ACR – Acre, **BAG** – Bag, **BBL** – Barrel, **BCY** - Bank (In-place) Cubic Yards, **BF** - Board Foot, **BOX** - Box (each), **BTU** - British Thermal Unit, **C** - One Hundred, **CCF** - One Hundred Cubic Feet, **CCY** - Compacted Cubic Yards, **CF** - Cubic Foot, **CFM** - Cubic Feet Per Minute, **CI** – Cubic Inch, **CLF** - One Hundred Linear Feet, **CSF** - One Hundred Square Feet, **CSY** - Hundred Square Yards, **CWT** - Hundred Weight, **CY** - Cubic Yard, **CYM** - Cubic Yard Mile, **DAY** – Day, **DRM** - Drum (each), **EA** – Each, **FLR** - Floor (Per Floor), **FT** – Foot, **GAL** – Gallon, **GSF** - Ground Square Foot, **HR** – Hour, **HWT** - Hundred Carton Weight, **HYR** – Half Year, **IN** – Inch, **JOB** – Job, **LAN** – Lane, **LB** – Pound, **LCY** -

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Loose (Excavated) Cubic Yards, **LF** - Linear Foot, **LFD** - Linear Feet Per Day, **LIT** – Liter, **LOT** – Lot, **MBF** - One Thousand Board Feet, **MBH** - One Thousand British Thermal Units, **MCF** – One Thousand Cubic Feet, **MF3** - One Thousand Cubic Feet Per Minute, **MGL** – One Thousand Gallons, **MI** – Mile, **MLF** - One Thousand Linear Feet, **MO** – Month, **MSF** - One Thousand Square Feet, **MSY** - One Thousand Square Yards, **MT** – Metric Ton, **MTK** – Metric Ton Kilometer, **M2** – Square Meter, **M3K** – Cubic Meter Kilometer, **NTE** – Note, **OPN** – Opening, **OUT** - Outlet or Output (each), **OZ** – Ounce, **PKG** – Package, **PNT** – Point, **PR** – Pair, **QT** – Quart, **ROL** - Roll (each), **ROM** – Room, **ROW** – Row, **RSR** - Riser (Per Rise), **SEA** – Seat, **SET** – Set, **SF** - Square Foot, **SHT** – Sheet, **SI** - Square Inch, **STP** - Stop (each), **SQ** - Square or One Hundred Square Feet, **SY** - Square Yard, **SYI** – Inches per Square Yard, **TNM** - Tons per Mile, **TON** – Ton, **TRK** – Truck Load, **UI** - United Inch, **UNT** – Unit, **VLF** - Vertical Linear Foot, **WK** – Week, **YD** – Yard, **YR** – Year

MATERIAL WEIGHTS:

EARTHEN MATERIAL

- The following engineering values for establishing shrink/swell factors shall be used unless otherwise directed by the Owner.

Material	Material Weight (Lbs Per CY)		
	In-place (Bank)	Loose (Excavated Materials)	Compacted
Earth, Common (Average)	3170	2536	3520
Sand	2880	2590	3240
Earth, Rock Mix. (75% E/ 25% R)	3380	2370	3720
Earth, Rock Mix. (50% E/50% R)	3750	2710	4000
Earth, Rock Mix. (25% E/ 75% R)	4120	3140	3680
Gravel (Average)	3280	2730	3570
Limestone	4380	2690	3220
Riprap Rock (Average)	4500	2610	3150
Granite	4540	2640	3170

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Basalt	4950	3020	3640
Clay	3220	2150	3570
Gneiss	4550	2720	3180

1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

BULK FACTORS FOR DEMOLITION:

The following bulk factors shall be used to calculate the volume of demolished material to be transported from the project site.

- **Asphalt** = 1.25
- **Concrete** = 1.40

CONVERSIONS:

1 Acre = 43,560 Square Feet = 4046.8 Square Meters

1 Board Foot = 12" x 12" x 1" = 144 Cubic Inches

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

1 Square Foot = 144 Square Inches = .0929 Square Meters

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

Gage No.	Sheet Metal Thickness (inches)			
	Steel Sheet	Galvanized Steel Sheet	Stainless Steel Sheet	Aluminum Sheet
10	.135	.138	.141	
11	.120	.123	.125	
12	.105	.108	.109	
13	.090	.093	.094	.072
14	.075	.079	.078	.064
15	.067	.071	.070	.057
16	.060	.064	.063	.051
17	.054	.058	.056	.045
18	.048	.052	.050	.040
19	.042	.046	.044	.036
20	.036	.040	.038	.032
21	.033	.037	.034	.028
22	.030	.034	.031	.025
23	.027	.031	.028	.023
24	.024	.028	.025	.020
25	.021	.025	.022	.018
26	.018	.022	.019	.017

STANDARD GEOMETRY:

Circle

- Circumference = $2 \pi \text{ radius} = \pi \text{ diameter}$
- Area = $\pi \text{ radius}^2 = \pi (\text{diameter}^2 / 4)$

Cylinder

- Volume = $(\pi \text{ radius}^2) \text{height}$
- Surface Area = $2 \pi \text{ radius}^2 + (2 \pi \text{ radius}) \text{height}$

Sphere

- Volume = $(4 \pi \text{ radius}^3) / 3$
- Surface Area = $4 \pi \text{ radius}^2$

$\pi = 3.14159$

United Inch

- The industry standard for measuring windows is the United Inch or UI. The UI is determined by adding the width and the height in inches.

TRADEMARKS

- ☑ Gordian JOC Solution, JOC Complete Solution, JOC Complete Solution Plus, PROGEN, eGordian, ezIQC, Construction Task Catalog, Catalog of Construction Tasks, DMAP, The Standard for Job Order Contracting and 6 Phase Development and Implementation Process are either registered trademarks or trademarks of The Gordian Group, Inc. The names of actual companies and products mentioned herein may be the trademarks of their respective owners

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 General Requirements

01 20 Price and Payment Procedures ⁽⁰¹⁾

01 22 Unit Prices ^(01 20)

Note: Provide digital copies of photographs.

01 22 16 Unit Price Payment ^(01 22)

01 22 16 00-0001 Reimbursable Fees ^(01 22 16)

Note: Reimbursable fees include but are not limited to permits, special inspections, special insurance, additional warranties, tolls, expedited shipping costs, etc, which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.

01 22 16 00-0002	EA	Reimbursable Fees.....	1.00
<p>Note: Reimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt, invoice, or proof of payment shall be submitted with the Price Proposal.</p>			

01 22 20 Wage Rates ^(01 22)

01 22 20 00-0001 Local Labor/Wage Rates ^(01 22 20)

Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.

01 22 20 00-0002	HR	Asbestos Removal Worker	70.05
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
For Foreperson, Add			3.50
For Apprentice, Deduct			-14.01
01 22 20 00-0003	HR	Insulator.....	135.99
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
For Foreperson, Add			6.80
For Apprentice, Deduct			-27.20
01 22 20 00-0004	HR	Boilermaker.....	108.05
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
For Foreperson, Add			5.40
For Apprentice, Deduct			-21.61
01 22 20 00-0005	HR	Brick Layer.....	106.69
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
For Foreperson, Add			5.33
For Apprentice, Deduct			-21.34
01 22 20 00-0006	HR	Carpenter.....	119.98
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
For Foreperson, Add			6.00
For Apprentice, Deduct			-24.00
01 22 20 00-0007	HR	Carpet, Linoleum	116.99
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
For Foreperson, Add			5.85
For Apprentice, Deduct			-23.40
01 22 20 00-0008	HR	Cement Mason	86.23
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
For Foreperson, Add			4.31
For Apprentice, Deduct			-17.25
01 22 20 00-0009	HR	Drywall Finisher.....	113.46
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
For Foreperson, Add			5.67
For Apprentice, Deduct			-22.69
01 22 20 00-0010	HR	Electrician	147.14
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
For Foreperson, Add			7.36
For Apprentice, Deduct			-29.43
01 22 20 00-0011	HR	Equipment Operator, Crane (Group 1-A).....	109.27
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
01 22 20 00-0012	HR	Equipment Operator, Crane (Group 2-A).....	106.93
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
For Foreperson, Add			5.35
For Apprentice, Deduct			-21.39
01 22 20 00-0013	HR	Equipment Operator, Crane (Group 3-A).....	104.66
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
01 22 20 00-0014	HR	Equipment Operator, Medium (Group 3)	104.15
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
For Foreperson, Add			5.21
For Apprentice, Deduct			-20.83
01 22 20 00-0015	HR	Equipment Operator, Medium (Group 4)	102.31
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
01 22 20 00-0016	HR	Equipment Operator, Medium (Group 5)	100.64
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
01 22 20 00-0017	HR	Equipment Operator, Light (Group 6)	98.88
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
For Foreperson, Add			4.94
For Apprentice, Deduct			-19.78
01 22 20 00-0018	HR	Equipment Operator, Light (Group 7)	97.38
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			

01	General Requirements
01 20	Price and Payment Procedures
01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0019 HR Equipment Operator, Light (Group 8)	95.88	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0020 HR Glazier	114.09	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.70	
For Apprentice, Deduct	-22.82	
01 22 20 00-0021 HR Laborer	85.52	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022 HR Lather.....	112.26	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.61	
For Apprentice, Deduct	-22.45	
01 22 20 00-0023 HR Marble Setter	114.68	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.73	
For Apprentice, Deduct	-22.94	
01 22 20 00-0024 HR Millwright.....	111.32	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.57	
For Apprentice, Deduct	-22.26	
01 22 20 00-0025 HR Mold Removal Worker	84.89	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.24	
For Apprentice, Deduct	-16.98	
01 22 20 00-0026 HR Painter, Ordinary.....	95.65	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.78	
For Apprentice, Deduct	-19.13	
01 22 20 00-0027 HR Painter, Structural Steel.....	99.99	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.00	
For Apprentice, Deduct	-20.00	
01 22 20 00-0028 HR Paperhanger	95.65	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.78	
For Apprentice, Deduct	-19.13	
01 22 20 00-0029 HR Pile Drivers	125.50	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.28	
For Apprentice, Deduct	-25.10	
01 22 20 00-0030 HR Plasterer	105.74	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.29	
For Apprentice, Deduct	-21.15	
01 22 20 00-0031 HR Plumber	145.77	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	7.29	
For Apprentice, Deduct	-29.15	
01 22 20 00-0032 HR Powderman.....	90.09	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.50	
For Apprentice, Deduct	-18.02	
01 22 20 00-0033 HR Rodman (Reinforcing)/Ornamental Steel Worker	104.91	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.25	
For Apprentice, Deduct	-20.98	
01 22 20 00-0034 HR Roofer, Composite.....	112.36	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.62	
For Apprentice, Deduct	-22.47	
01 22 20 00-0035 HR Roofer, Metal	175.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	8.79	
For Apprentice, Deduct	-35.14	
01 22 20 00-0036 HR Roofer, Tile/Slate	108.71	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.44	
For Apprentice, Deduct	-21.74	
01 22 20 00-0037 HR Sheet Metal Worker	144.81	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	7.24	
For Apprentice, Deduct	-28.96	
01 22 20 00-0038 HR Sprinkler Installer	137.99	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.90	
For Apprentice, Deduct	-27.60	
01 22 20 00-0039 HR Steam / Pipe Fitter	145.77	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	7.29	
For Apprentice, Deduct	-29.15	
01 22 20 00-0040 HR Stone Mason.....	106.69	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.33	
For Apprentice, Deduct	-21.34	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0041 HR Iron Worker (Structural)	107.25	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.36	
For Apprentice, Deduct	-21.45	
01 22 20 00-0042 HR Tile Layer	96.15	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.81	
For Apprentice, Deduct	-19.23	
01 22 20 00-0043 HR Terrazzo Worker	105.58	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.28	
For Apprentice, Deduct	-21.12	
01 22 20 00-0044 HR Truck Driver, Light (Group 1)	84.62	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.23	
For Apprentice, Deduct	-16.92	
01 22 20 00-0045 HR Truck Driver, Medium (Group 2)	85.05	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0046 HR Truck Driver, Heavy (Group 3)	85.48	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.27	
For Apprentice, Deduct	-17.10	
01 22 20 00-0047 HR Truck Driver, Heavy (Group 4)	85.92	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0048 HR Class I Diver	208.43	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0049 HR Class III Diver Tender	136.83	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0050 HR D1 Certified Welder	111.20	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0051 Rates For Services (01 22 20)		
01 22 20 00-0052 HR Watch/Guard Person, Unarmed	35.33	
01 22 20 00-0053 HR Watch/Guard Person, Armed	44.36	
01 22 20 00-0054 HR Surveyor (Rod Person)	106.15	
01 22 20 00-0055 HR Senior Surveyor (Party Chief)	116.56	
01 22 20 00-0056 HR Surveyor (Instrument person)	110.56	
01 22 20 00-0057 HR On-Site Certified Materials Testing Technician	82.92	
01 22 20 00-0058 HR Certified Industrial Hygienist	133.60	
01 22 20 00-0059 MI Mileage For Professional Services (Engineering, Surveying, Etcetera)	0.56	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0060 HR Fire Watch Laborer	85.52	
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.		
01 22 20 00-0061 Rates For Project Management Services (01 22 20)		
01 22 20 00-0062 HR Project Manager	151.80	
01 22 20 00-0063 Rates For Architectural And Engineering Services (01 22 20)		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0064 HR Principal Architect	212.52	
01 22 20 00-0065 HR Senior Architect	187.22	
01 22 20 00-0066 HR Architect	142.94	
01 22 20 00-0067 HR Principal Engineer	212.52	
01 22 20 00-0068 HR Senior Engineer	161.92	
01 22 20 00-0069 HR Engineer	129.03	
01 22 20 00-0070 HR Draft Person	76.53	
01 22 20 00-0071 Rates For Traffic Control (01 22 20)		
01 22 20 00-0072 DAY Pilot Vehicle With Driver	1,023.32	
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0073 HR Flagperson For Traffic Control	85.52	
01 22 20 00-0074 Mobilize Equipment (01 22 20)		
01 22 20 00-0075 HR Escort Vehicle With Driver	98.95	
01 22 20 00-0076 HR Transport Vehicle With Driver	139.00	
01 22 23 Equipment Usage (01 22)		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 22 20 00-0071 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization		

01	01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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and demobilization.

01 22 23 00-0001	Aerial Equipment <small>(01 22 23)</small>	
01 22 23 00-0002	Man Lifts <small>(01 22 23 00-0001)</small> Note: Excludes operator, delivery, set-up, and removal.	
01 22 23 00-0003	Telescoping Boom Man Lifts With Platform <small>(01 22 23 00-0002)</small>	
01 22 23 00-0004	Engine Powered, Telescoping Boom Man Lifts With Platform <small>(01 22 23 00-0003)</small> Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0005	DAY 40' Engine Powered, Telescoping Boom Man Lift With Platform .....459.70 <i>For Four-Wheel Drive, Add</i> 103.43	
01 22 23 00-0006	WK 40' Engine Powered, Telescoping Boom Man Lift With Platform 1,156.66 <i>For Four-Wheel Drive, Add</i> 260.25	
01 22 23 00-0007	MO 40' Engine Powered, Telescoping Boom Man Lift With Platform 2,595.08 <i>For Four-Wheel Drive, Add</i> 583.89	
01 22 23 00-0008	DAY 60' Engine Powered, Telescoping Boom Man Lift With Platform .....674.72 <i>For Four-Wheel Drive, Add</i> 151.81	
01 22 23 00-0009	WK 60' Engine Powered, Telescoping Boom Man Lift With Platform 1,608.95 <i>For Four-Wheel Drive, Add</i> 362.01	
01 22 23 00-0010	MO 60' Engine Powered, Telescoping Boom Man Lift With Platform .....3,521.89 <i>For Four-Wheel Drive, Add</i> 792.43	
01 22 23 00-0011	DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform 1,312.37 <i>For Four-Wheel Drive, Add</i> 295.28	
01 22 23 00-0012	WK 80' Engine Powered, Telescoping Boom Man Lift With Platform 3,180.82 <i>For Four-Wheel Drive, Add</i> 715.68	
01 22 23 00-0013	MO 80' Engine Powered, Telescoping Boom Man Lift With Platform 6,673.05 <i>For Four-Wheel Drive, Add</i> 1,501.44	
01 22 23 00-0014	DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform 1,868.45 <i>For Four-Wheel Drive, Add</i> 420.40	
01 22 23 00-0015	WK 110' Engine Powered, Telescoping Boom Man Lift With Platform 4,499.12 <i>For Four-Wheel Drive, Add</i> 1,012.30	
01 22 23 00-0016	MO 110' Engine Powered, Telescoping Boom Man Lift With Platform .....11,210.72 <i>For Four-Wheel Drive, Add</i> 2,522.41	
01 22 23 00-0017	DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform 2,276.25 <i>For Four-Wheel Drive, Add</i> 512.16	
01 22 23 00-0018	WK 120' Engine Powered, Telescoping Boom Man Lift With Platform 5,805.55 <i>For Four-Wheel Drive, Add</i> 1,306.25	
01 22 23 00-0019	MO 120' Engine Powered, Telescoping Boom Man Lift With Platform 13,197.81 <i>For Four-Wheel Drive, Add</i> 2,969.51	
01 22 23 00-0020	Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0002)</small>	
01 22 23 00-0021	Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0020)</small> Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0022	DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform .....410.16	
01 22 23 00-0023	WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 1,029.14	
01 22 23 00-0024	MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 2,475.89	
01 22 23 00-0025	DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 522.02	
01 22 23 00-0026	WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 1,141.00	
01 22 23 00-0027	MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 2,832.36	
01 22 23 00-0028	DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 671.18	
01 22 23 00-0029	WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 1,551.16	
01 22 23 00-0030	MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 3,467.74	
01 22 23 00-0031	DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 1,170.83	
01 22 23 00-0032	WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 2,759.28	
01 22 23 00-0033	MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 6,710.26	
01 22 23 00-0034	DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 2,274.54	
01 22 23 00-0035	WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 5,369.40	
01 22 23 00-0036	MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 13,125.20	
01 22 23 00-0037	Electric, Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0020)</small> Note: For use on paved surfaces.	
01 22 23 00-0038	DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform .....410.16	
01 22 23 00-0039	WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform 1,029.14	
01 22 23 00-0040	MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform 2,475.89	
01 22 23 00-0041	DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform 410.16	
01 22 23 00-0042	WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform 1,029.14	
01 22 23 00-0043	MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform 2,475.89	
01 22 23 00-0044	DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform .....507.11	
01 22 23 00-0045	WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform 1,096.25	
01 22 23 00-0046	MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform 2,721.99	
01 22 23 00-0047	DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform 507.11	
01 22 23 00-0048	WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform 1,096.25	
01 22 23 00-0049	MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform 2,721.99	
01 22 23 00-0050	Platform Lifts <small>(01 22 23 00-0001)</small> Note: Excludes operator, delivery, set-up, and removal.	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0051	Electric, Scissor Platform Lifts (01 22 23 00-0050)	
	Note: For use on paved surfaces.	
01 22 23 00-0052	DAY 17' Electric, Scissor Platform Lift	170.50
01 22 23 00-0053	WK 17' Electric, Scissor Platform Lift	341.00
01 22 23 00-0054	MO 17' Electric, Scissor Platform Lift	697.50
01 22 23 00-0055	DAY 20' Electric, Scissor Platform Lift	186.00
01 22 23 00-0056	WK 20' Electric, Scissor Platform Lift	372.00
01 22 23 00-0057	MO 20' Electric, Scissor Platform Lift	744.00
01 22 23 00-0058	DAY 25' Electric, Scissor Platform Lift	240.25
01 22 23 00-0059	WK 25' Electric, Scissor Platform Lift	480.50
01 22 23 00-0060	MO 25' Electric, Scissor Platform Lift	1,030.75
01 22 23 00-0061	DAY 30' Electric, Scissor Platform Lift	310.00
01 22 23 00-0062	WK 30' Electric, Scissor Platform Lift	612.25
01 22 23 00-0063	MO 30' Electric, Scissor Platform Lift	1,356.25
01 22 23 00-0064	DAY 33' Electric, Scissor Platform Lift	333.25
01 22 23 00-0065	WK 33' Electric, Scissor Platform Lift	651.00
01 22 23 00-0066	MO 33' Electric, Scissor Platform Lift	1,472.50
01 22 23 00-0067	DAY 40' Electric, Scissor Platform Lift	434.00
01 22 23 00-0068	WK 40' Electric, Scissor Platform Lift	1,077.25
01 22 23 00-0069	MO 40' Electric, Scissor Platform Lift	2,999.25

01 22 23 00-0070	Engine Powered, Scissor Platform Lifts (01 22 23 00-0050)	
	Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0071	DAY 25' Engine Powered, Scissor Platform Lift	414.52
	<i>For Four-Wheel Drive, Add</i>	82.90
01 22 23 00-0072	WK 25' Engine Powered, Scissor Platform Lift	810.61
	<i>For Four-Wheel Drive, Add</i>	162.12
01 22 23 00-0073	MO 25' Engine Powered, Scissor Platform Lift	1,980.47
	<i>For Four-Wheel Drive, Add</i>	396.09
01 22 23 00-0074	DAY 33' Engine Powered, Scissor Platform Lift	423.73
	<i>For Four-Wheel Drive, Add</i>	84.75
01 22 23 00-0075	WK 33' Engine Powered, Scissor Platform Lift	967.21
	<i>For Four-Wheel Drive, Add</i>	193.44
01 22 23 00-0076	MO 33' Engine Powered, Scissor Platform Lift	2,118.64
	<i>For Four-Wheel Drive, Add</i>	423.73
01 22 23 00-0077	DAY 40' Engine Powered, Scissor Platform Lift	469.79
	<i>For Four-Wheel Drive, Add</i>	93.96
01 22 23 00-0078	WK 40' Engine Powered, Scissor Platform Lift	1,077.75
	<i>For Four-Wheel Drive, Add</i>	215.55
01 22 23 00-0079	MO 40' Engine Powered, Scissor Platform Lift	2,394.99
	<i>For Four-Wheel Drive, Add</i>	479.00
01 22 23 00-0080	DAY 43' Engine Powered, Scissor Platform Lift	497.42
	<i>For Four-Wheel Drive, Add</i>	99.48
01 22 23 00-0081	WK 43' Engine Powered, Scissor Platform Lift	1,160.65
	<i>For Four-Wheel Drive, Add</i>	232.13
01 22 23 00-0082	MO 43' Engine Powered, Scissor Platform Lift	2,855.56
	<i>For Four-Wheel Drive, Add</i>	571.11
01 22 23 00-0083	DAY 50' Engine Powered, Scissor Platform Lift	930.36
	<i>For Four-Wheel Drive, Add</i>	186.07
01 22 23 00-0084	WK 50' Engine Powered, Scissor Platform Lift	2,044.95
	<i>For Four-Wheel Drive, Add</i>	408.99
01 22 23 00-0085	MO 50' Engine Powered, Scissor Platform Lift	5,029.48
	<i>For Four-Wheel Drive, Add</i>	1,005.90

01 22 23 00-0086	Personnel Lifts (01 22 23 00-0001)	
	Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.	
01 22 23 00-0087	DAY 24', Push-Type, Electric Single Man Personnel Lift	164.90
01 22 23 00-0088	WK 24', Push-Type, Electric Single Man Personnel Lift	467.21
01 22 23 00-0089	MO 24', Push-Type, Electric Single Man Personnel Lift	943.58
01 22 23 00-0090	DAY 30', Push-Type, Electric Single Man Personnel Lift	229.02
01 22 23 00-0091	WK 30', Push-Type, Electric Single Man Personnel Lift	485.53
01 22 23 00-0092	MO 30', Push-Type, Electric Single Man Personnel Lift	1,648.98
01 22 23 00-0093	DAY 36', Push-Type, Electric Single Man Personnel Lift	384.76
01 22 23 00-0094	WK 36', Push-Type, Electric Single Man Personnel Lift	934.42
01 22 23 00-0095	MO 36', Push-Type, Electric Single Man Personnel Lift	2,729.98
01 22 23 00-0096	DAY 40', Push-Type, Electric Single Man Personnel Lift	412.24
01 22 23 00-0097	WK 40', Push-Type, Electric Single Man Personnel Lift	1,026.03
01 22 23 00-0098	MO 40', Push-Type, Electric Single Man Personnel Lift	3,087.26
01 22 23 00-0099	DAY 15', Self-Propelled, Electric Single Man Personnel Lift	219.86
01 22 23 00-0100	WK 15', Self-Propelled, Electric Single Man Personnel Lift	439.73
01 22 23 00-0101	MO 15', Self-Propelled, Electric Single Man Personnel Lift	879.46
01 22 23 00-0102	DAY 20', Self-Propelled, Electric Single Man Personnel Lift	219.86
01 22 23 00-0103	WK 20', Self-Propelled, Electric Single Man Personnel Lift	439.73
01 22 23 00-0104	MO 20', Self-Propelled, Electric Single Man Personnel Lift	914.27

01 22 23 00-0105	Bucket Trucks (01 22 23 00-0001)	
	Note: Includes full-time operator, delivery, and removal.	

01	General Requirements
01 20	Price and Payment Procedures
01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0106 DAY 29' Bucket Truck With Full-Time Operator	1,268.22	
For Equipment Without Operator, Deduct	-683.84	
01 22 23 00-0107 WK 29' Bucket Truck With Full-Time Operator	5,172.32	
For Equipment Without Operator, Deduct	-3,419.20	
01 22 23 00-0108 MO 29' Bucket Truck With Full-Time Operator	19,279.05	
For Equipment Without Operator, Deduct	-14,816.55	
01 22 23 00-0109 DAY 38' Bucket Truck With Full-Time Operator	1,342.59	
For Equipment Without Operator, Deduct	-683.84	
01 22 23 00-0110 WK 38' Bucket Truck With Full-Time Operator	5,411.39	
For Equipment Without Operator, Deduct	-3,419.20	
01 22 23 00-0111 MO 38' Bucket Truck With Full-Time Operator	19,916.55	
For Equipment Without Operator, Deduct	-14,816.55	
01 22 23 00-0112 DAY 48' Bucket Truck With Full-Time Operator	1,533.84	
For Equipment Without Operator, Deduct	-683.84	
01 22 23 00-0113 WK 48' Bucket Truck With Full-Time Operator	5,756.70	
For Equipment Without Operator, Deduct	-3,419.20	
01 22 23 00-0114 MO 48' Bucket Truck With Full-Time Operator	20,660.30	
For Equipment Without Operator, Deduct	-14,816.55	
01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator	1,958.84	
For Equipment Without Operator, Deduct	-683.84	
01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator	7,137.95	
For Equipment Without Operator, Deduct	-3,419.20	
01 22 23 00-0117 MO 62' Bucket Truck With Full-Time Operator	24,379.05	
For Equipment Without Operator, Deduct	-14,816.55	
01 22 23 00-0118 DAY 85' Bucket Truck With Full-Time Operator	2,171.34	
For Equipment Without Operator, Deduct	-683.84	
01 22 23 00-0119 WK 85' Bucket Truck With Full-Time Operator	7,881.70	
For Equipment Without Operator, Deduct	-3,419.20	
01 22 23 00-0120 MO 85' Bucket Truck With Full-Time Operator	27,035.30	
For Equipment Without Operator, Deduct	-14,816.55	
01 22 23 00-0121 Air Equipment (01 22 23)		
01 22 23 00-0122 Air Compressors (01 22 23 00-0121)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0123 DAY 100 CFM Diesel Powered Portable Air Compressor	168.27	
01 22 23 00-0124 WK 100 CFM Diesel Powered Portable Air Compressor	504.81	
01 22 23 00-0125 MO 100 CFM Diesel Powered Portable Air Compressor	1,402.25	
01 22 23 00-0126 DAY 130 CFM Diesel Powered Portable Air Compressor	201.92	
01 22 23 00-0127 WK 130 CFM Diesel Powered Portable Air Compressor	594.55	
01 22 23 00-0128 MO 130 CFM Diesel Powered Portable Air Compressor	1,682.70	
01 22 23 00-0129 DAY 185 CFM Diesel Powered Portable Air Compressor	269.23	
01 22 23 00-0130 WK 185 CFM Diesel Powered Portable Air Compressor	605.77	
01 22 23 00-0131 MO 185 CFM Diesel Powered Portable Air Compressor	1,334.94	
01 22 23 00-0132 DAY 375 CFM Diesel Powered Portable Air Compressor	381.41	
01 22 23 00-0133 WK 375 CFM Diesel Powered Portable Air Compressor	964.75	
01 22 23 00-0134 MO 375 CFM Diesel Powered Portable Air Compressor	2,299.69	
01 22 23 00-0135 DAY 600 CFM Diesel Powered Portable Air Compressor	848.08	
01 22 23 00-0136 WK 600 CFM Diesel Powered Portable Air Compressor	2,041.68	
01 22 23 00-0137 MO 600 CFM Diesel Powered Portable Air Compressor	5,088.48	
01 22 23 00-0138 DAY 750 CFM Diesel Powered Portable Air Compressor	1,020.84	
01 22 23 00-0139 WK 750 CFM Diesel Powered Portable Air Compressor	2,512.83	
01 22 23 00-0140 MO 750 CFM Diesel Powered Portable Air Compressor	6,169.90	
01 22 23 00-0141 DAY 825 CFM Diesel Powered Portable Air Compressor	1,020.84	
01 22 23 00-0142 WK 825 CFM Diesel Powered Portable Air Compressor	2,512.83	
01 22 23 00-0143 MO 825 CFM Diesel Powered Portable Air Compressor	6,169.90	
01 22 23 00-0144 DAY 1,300 CFM Diesel Powered Portable Air Compressor	1,189.11	
01 22 23 00-0145 WK 1,300 CFM Diesel Powered Portable Air Compressor	2,665.40	
01 22 23 00-0146 MO 1,300 CFM Diesel Powered Portable Air Compressor	7,107.72	
01 22 23 00-0147 DAY 1,600 CFM Diesel Powered Portable Air Compressor	1,480.78	
01 22 23 00-0148 WK 1,600 CFM Diesel Powered Portable Air Compressor	3,331.75	
01 22 23 00-0149 MO 1,600 CFM Diesel Powered Portable Air Compressor	8,884.66	
01 22 23 00-0150 Portable Negative Air Machines (01 22 23 00-0121)		
Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.		
01 22 23 00-0151 DAY Up To 2,000 CFM, Portable Negative Air Machine	81.38	
01 22 23 00-0152 WK Up To 2,000 CFM, Portable Negative Air Machine	334.24	
01 22 23 00-0153 MO Up To 2,000 CFM, Portable Negative Air Machine	1,009.97	
01 22 23 00-0154 EA First Stage Pre-Filter For Portable Negative Air Machines	14.56	
01 22 23 00-0155 EA Second Stage Pre-Filter For Portable Negative Air Machines	33.41	
01 22 23 00-0156 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines	172.31	
01 22 23 00-0157 LF Flexible Exhaust Duct For Portable Negative Air Machines	2.16	
01 22 23 00-0158 Portable Air Scrubbers (01 22 23 00-0121)		
Note: A Portable Air Scrubber filters and recirculates the filtered air into the same space and does not use ducting to exhaust the filtered air to a different location. Includes delivery to job site and pick-up when complete. Excludes all filters.		
01 22 23 00-0159 DAY Up To 1,000 CFM, Portable Air Scrubber	82.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0160 WK Up To 1,000 CFM, Portable Air Scrubber	342.27	
01 22 23 00-0161 MO Up To 1,000 CFM, Portable Air Scrubber	947.46	
01 22 23 00-0162 DAY >1,000 to 2,000 CFM, Portable Air Scrubber	104.17	
01 22 23 00-0163 WK >1,000 to 2,000 CFM, Portable Air Scrubber	431.56	
01 22 23 00-0164 MO >1,000 to 2,000 CFM, Portable Air Scrubber	1,264.93	
01 22 23 00-0165 DAY >2,000 To 5,000 CFM, Portable Air Scrubber	133.93	
01 22 23 00-0166 WK >2,000 To 5,000 CFM, Portable Air Scrubber	570.46	
01 22 23 00-0167 MO >2,000 To 5,000 CFM, Portable Air Scrubber	1,597.28	
01 22 23 00-0168 EA First Stage Pre-Filter For Portable Air Scrubbers	20.52	
01 22 23 00-0169 EA Second Stage Pre-Filter For Portable Air Scrubbers	28.45	
01 22 23 00-0170 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Air Scrubbers	291.36	
01 22 23 00-0171 Compaction And Paving Equipment <small>(01 22 23)</small>		
01 22 23 00-0172 Pavers And Rollers <small>(01 22 23 00-0171)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0173 Pavers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0174 DAY 10' Wide Paving Machine With Full-Time Operator	4,111.49	
<i>For Equipment Without Operator, Deduct</i>		-833.21
01 22 23 00-0175 WK 10' Wide Paving Machine With Full-Time Operator	17,279.19	
<i>For Equipment Without Operator, Deduct</i>		-4,166.06
01 22 23 00-0176 MO 10' Wide Paving Machine With Full-Time Operator	64,886.36	
<i>For Equipment Without Operator, Deduct</i>		-18,052.95
01 22 23 00-0177 Ride-On Self-Propelled, Rubber Tire Rollers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0178 DAY 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,239.05	
<i>For Equipment Without Operator, Deduct</i>		-833.21
01 22 23 00-0179 WK 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	5,393.55	
<i>For Equipment Without Operator, Deduct</i>		-4,166.06
01 22 23 00-0180 MO 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	21,385.11	
<i>For Equipment Without Operator, Deduct</i>		-18,052.95
01 22 23 00-0181 DAY 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,395.69	
<i>For Equipment Without Operator, Deduct</i>		-833.21
01 22 23 00-0182 WK 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	6,558.38	
<i>For Equipment Without Operator, Deduct</i>		-4,166.06
01 22 23 00-0183 MO 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	23,143.75	
<i>For Equipment Without Operator, Deduct</i>		-18,052.95
01 22 23 00-0184 DAY 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	1,402.81	
<i>For Equipment Without Operator, Deduct</i>		-833.21
01 22 23 00-0185 WK 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	6,095.58	
<i>For Equipment Without Operator, Deduct</i>		-4,166.06
01 22 23 00-0186 MO 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	23,485.51	
<i>For Equipment Without Operator, Deduct</i>		-18,052.95
01 22 23 00-0187 Ride-On Self-Propelled, Padfoot Rollers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0188 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,303.13	
<i>For Equipment Without Operator, Deduct</i>		-833.21
01 22 23 00-0189 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,469.02	
<i>For Equipment Without Operator, Deduct</i>		-4,166.06
01 22 23 00-0190 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	21,819.43	
<i>For Equipment Without Operator, Deduct</i>		-18,052.95
01 22 23 00-0191 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,602.17	
<i>For Equipment Without Operator, Deduct</i>		-833.21
01 22 23 00-0192 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,074.22	
<i>For Equipment Without Operator, Deduct</i>		-4,166.06
01 22 23 00-0193 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	23,727.59	
<i>For Equipment Without Operator, Deduct</i>		-18,052.95
01 22 23 00-0194 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,673.37	
<i>For Equipment Without Operator, Deduct</i>		-833.21
01 22 23 00-0195 WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,522.78	
<i>For Equipment Without Operator, Deduct</i>		-4,166.06
01 22 23 00-0196 MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	24,980.71	
<i>For Equipment Without Operator, Deduct</i>		-18,052.95
01 22 23 00-0197 Towed, Padfoot Rollers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0198 DAY 48" Wide, 40" Diameter, Towed Padfoot Roller	135.28	
01 22 23 00-0199 WK 48" Wide, 40" Diameter, Towed Padfoot Roller	391.60	
01 22 23 00-0200 MO 48" Wide, 40" Diameter, Towed Padfoot Roller	1,153.44	
01 22 23 00-0201 DAY 60" Wide, 60" Diameter, Towed Padfoot Roller	170.88	
01 22 23 00-0202 WK 60" Wide, 60" Diameter, Towed Padfoot Roller	477.04	
01 22 23 00-0203 MO 60" Wide, 60" Diameter, Towed Padfoot Roller	2,029.20	
01 22 23 00-0204 Static Rollers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0205 DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,338.73	
<i>For Equipment Without Operator, Deduct</i>		-833.21
01 22 23 00-0206 WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	5,775.18	
<i>For Equipment Without Operator, Deduct</i>		-4,166.06

01	General Requirements
01 20	Price and Payment Procedures
01 22	Unit Prices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0207	MO		5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	22,823.35	
			<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0208	DAY		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,495.37	
			<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0209	WK		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	6,202.38	
			<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0210	MO		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	24,005.27	
			<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0211			Ride-On Self-Propelled, Smooth Drum Vibratory Rollers (01 22 23 00-0172)		
01 22 23 00-0212	DAY		1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,110.89	
			<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0213	WK		1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	4,977.74	
			<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0214	MO		1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	20,188.95	
			<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0215	DAY		3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,217.69	
			<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0216	WK		3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,298.14	
			<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0217	MO		3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	21,043.35	
			<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0218	DAY		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,288.89	
			<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0219	WK		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,511.74	
			<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0220	MO		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	21,612.95	
			<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0221	DAY		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,381.45	
			<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0222	WK		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,782.30	
			<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0223	MO		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,317.83	
			<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0224	DAY		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,566.57	
			<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0225	WK		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,323.42	
			<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0226	MO		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	23,748.95	
			<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0227			Steel Roadway Plates (01 22 23 00-0171)		
			Note: 3 day minimum. Excludes delivery. See CSI section 01 71 13 00-0001 for material delivery on truck.		
01 22 23 00-0228	EA		Placement And Removal Of Steel Roadway Plates.....	54.61	
01 22 23 00-0229	DAY		1" x 4' x 8' Steel Plate	38.04	
01 22 23 00-0230	WK		1" x 4' x 8' Steel Plate	89.83	
01 22 23 00-0231	MO		1" x 4' x 8' Steel Plate	118.21	
01 22 23 00-0232	DAY		1" x 4' x 10' Steel Plate	50.73	
01 22 23 00-0233	WK		1" x 4' x 10' Steel Plate	114.13	
01 22 23 00-0234	MO		1" x 4' x 10' Steel Plate	139.50	
01 22 23 00-0235	DAY		1" x 5' x 10' Steel Plate	52.84	
01 22 23 00-0236	WK		1" x 5' x 10' Steel Plate	119.42	
01 22 23 00-0237	MO		1" x 5' x 10' Steel Plate	317.04	
01 22 23 00-0238	DAY		1" x 6' x 8' Steel Plate	33.82	
01 22 23 00-0239	WK		1" x 6' x 8' Steel Plate	76.09	
01 22 23 00-0240	MO		1" x 6' x 8' Steel Plate	202.91	
01 22 23 00-0241	DAY		1" x 6' x 10' Steel Plate	63.41	
01 22 23 00-0242	WK		1" x 6' x 10' Steel Plate	83.49	
01 22 23 00-0243	MO		1" x 6' x 10' Steel Plate	222.98	
01 22 23 00-0244	DAY		1" x 6' x 12' Steel Plate	88.77	
01 22 23 00-0245	WK		1" x 6' x 12' Steel Plate	113.61	
01 22 23 00-0246	MO		1" x 6' x 12' Steel Plate	307.53	
01 22 23 00-0247	DAY		1" x 8' x 10' Steel Plate	56.01	
01 22 23 00-0248	WK		1" x 8' x 10' Steel Plate	125.76	
01 22 23 00-0249	MO		1" x 8' x 10' Steel Plate	335.01	
01 22 23 00-0250	DAY		1" x 8' x 12' Steel Plate	101.45	
01 22 23 00-0251	WK		1" x 8' x 12' Steel Plate	125.76	
01 22 23 00-0252	MO		1" x 8' x 12' Steel Plate	608.72	
01 22 23 00-0253	DAY		1" x 8' x 16' Steel Plate	135.27	
01 22 23 00-0254	WK		1" x 8' x 16' Steel Plate	304.36	
01 22 23 00-0255	MO		1" x 8' x 16' Steel Plate	811.62	
01 22 23 00-0256	LF		Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	2.44	1.06
01 22 23 00-0257	EA		Removal And Resetting Of Steel Roadway Plate	30.34	
01 22 23 00-0258			Street Sweepers (01 22 23 00-0171)		
			Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0259	DAY		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	977.69	
			<i>For Equipment Without Operator, Deduct</i>	-791.07	
01 22 23 00-0260	WK		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	4,694.85	
			<i>For Equipment Without Operator, Deduct</i>	-3,955.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0261 MO 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	19,774.52	
<i>For Equipment Without Operator, Deduct</i>	-17,139.76	
01 22 23 00-0262 DAY Self-Propelled Street Sweeper With Hopper And Full-Time Operator	1,712.48	
Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
<i>For Equipment Without Operator, Deduct</i>	-791.07	
01 22 23 00-0263 WK Self-Propelled Street Sweeper With Hopper And Full-Time Operator	7,646.07	
Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
<i>For Equipment Without Operator, Deduct</i>	-3,955.33	
01 22 23 00-0264 MO Self-Propelled Street Sweeper With Hopper And Full-Time Operator	30,311.11	
Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
<i>For Equipment Without Operator, Deduct</i>	-17,139.76	
 01 22 23 00-0265 Earthmoving Equipment (01 22 23)		
01 22 23 00-0266 Skid-Steer Loaders (01 22 23 00-0265)		
Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.		
01 22 23 00-0267 DAY 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	1,140.70	
<i>For Equipment Without Operator, Deduct</i>	-791.07	
01 22 23 00-0268 WK 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	4,872.57	
<i>For Equipment Without Operator, Deduct</i>	-3,955.33	
01 22 23 00-0269 MO 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	19,348.74	
<i>For Equipment Without Operator, Deduct</i>	-17,139.76	
01 22 23 00-0270 DAY 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	1,232.87	
<i>For Equipment Without Operator, Deduct</i>	-791.07	
01 22 23 00-0271 WK 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	5,039.34	
<i>For Equipment Without Operator, Deduct</i>	-3,955.33	
01 22 23 00-0272 MO 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	19,714.46	
<i>For Equipment Without Operator, Deduct</i>	-17,139.76	
01 22 23 00-0273 DAY 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	2,159.20	
<i>For Equipment Without Operator, Deduct</i>	-791.07	
01 22 23 00-0274 WK 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	5,279.25	
<i>For Equipment Without Operator, Deduct</i>	-3,955.33	
01 22 23 00-0275 MO 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	20,350.83	
<i>For Equipment Without Operator, Deduct</i>	-17,139.76	
01 22 23 00-0276 DAY 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,361.60	
<i>For Equipment Without Operator, Deduct</i>	-791.07	
01 22 23 00-0277 WK 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	5,615.72	
<i>For Equipment Without Operator, Deduct</i>	-3,955.33	
01 22 23 00-0278 MO 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	21,462.63	
<i>For Equipment Without Operator, Deduct</i>	-17,139.76	
01 22 23 00-0279 DAY 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,537.15	
<i>For Equipment Without Operator, Deduct</i>	-791.07	
01 22 23 00-0280 WK 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	6,281.34	
<i>For Equipment Without Operator, Deduct</i>	-3,955.33	
01 22 23 00-0281 MO 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	23,101.08	
<i>For Equipment Without Operator, Deduct</i>	-17,139.76	
01 22 23 00-0282 DAY Hydraulic Hammer Attachment For Skid-Steer Loaders	292.58	
01 22 23 00-0283 WK Hydraulic Hammer Attachment For Skid-Steer Loaders	972.83	
01 22 23 00-0284 MO Hydraulic Hammer Attachment For Skid-Steer Loaders	2,589.33	
01 22 23 00-0285 DAY Forklift Attachment For Skid-Steer Loaders	62.90	
01 22 23 00-0286 WK Forklift Attachment For Skid-Steer Loaders	168.23	
01 22 23 00-0287 MO Forklift Attachment For Skid-Steer Loaders	475.44	
01 22 23 00-0288 DAY Backhoe Attachment For Skid-Steer Loaders	138.98	
01 22 23 00-0289 WK Backhoe Attachment For Skid-Steer Loaders	333.54	
01 22 23 00-0290 MO Backhoe Attachment For Skid-Steer Loaders	829.46	
01 22 23 00-0291 DAY Broom Attachment For Skid-Steer Loaders	137.51	
01 22 23 00-0292 WK Broom Attachment For Skid-Steer Loaders	373.04	
01 22 23 00-0293 MO Broom Attachment For Skid-Steer Loaders	987.46	
01 22 23 00-0294 DAY Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	119.96	
01 22 23 00-0295 WK Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	330.62	
01 22 23 00-0296 MO Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	902.61	
01 22 23 00-0297 DAY Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	33.06	
01 22 23 00-0298 WK Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	86.50	
01 22 23 00-0299 MO Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	254.41	
01 22 23 00-0300 DAY >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	44.52	
01 22 23 00-0301 WK >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	110.67	
01 22 23 00-0302 MO >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	330.75	
01 22 23 00-0303 DAY Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	64.86	
01 22 23 00-0304 WK Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	197.18	
01 22 23 00-0305 MO Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	585.16	
01 22 23 00-0306 DAY 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	13.17	
01 22 23 00-0307 WK 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	30.72	
01 22 23 00-0308 MO 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	81.92	
 01 22 23 00-0309 Bulldozers (01 22 23 00-0265)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0310 DAY 70 HP, D3 Bulldozer With Full-Time Operator	1,186.32	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0311 WK 70 HP, D3 Bulldozer With Full-Time Operator	5,558.52	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	

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01 22 23 00-0312 MO 70 HP, D3 Bulldozer With Full-Time Operator	22,183.70	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0313 DAY 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator.....	1,352.89	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0314 WK 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator.....	6,231.44	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0315 MO 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator.....	24,249.07	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0316 DAY 140 HP, D6 Bulldozer With Full-Time Operator	1,825.92	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0317 WK 140 HP, D6 Bulldozer With Full-Time Operator	8,123.58	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0318 MO 140 HP, D6 Bulldozer With Full-Time Operator	29,912.20	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0319 DAY 200 HP, D7 Bulldozer With Full-Time Operator	2,245.66	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0320 WK 200 HP, D7 Bulldozer With Full-Time Operator	9,809.20	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0321 MO 200 HP, D7 Bulldozer With Full-Time Operator	34,975.70	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0322 DAY 335 HP, D8 Bulldozer With Full-Time Operator	2,745.35	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0323 WK 335 HP, D8 Bulldozer With Full-Time Operator	11,807.95	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0324 MO 335 HP, D8 Bulldozer With Full-Time Operator	40,971.95	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0325 DAY 460 HP, D9 Bulldozer With Full-Time Operator	3,025.17	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0326 WK 460 HP, D9 Bulldozer With Full-Time Operator	12,920.58	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0327 MO 460 HP, D9 Bulldozer With Full-Time Operator	44,303.20	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0328 Motor Scraper (01 22 23 00-0265)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0329 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator	2,105.38	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0330 WK 11 CY Motor Scraper-Hauler With Full-Time Operator	9,254.74	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0331 MO 11 CY Motor Scraper-Hauler With Full-Time Operator	33,301.57	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0332 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator	2,619.48	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0333 WK 18 CY Motor Scraper-Hauler With Full-Time Operator	11,311.13	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0334 MO 18 CY Motor Scraper-Hauler With Full-Time Operator	39,488.16	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0335 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator	3,116.15	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0336 WK 24 CY Motor Scraper-Hauler With Full-Time Operator	13,289.09	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0337 MO 24 CY Motor Scraper-Hauler With Full-Time Operator	45,413.34	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0338 Hydraulic Excavators (01 22 23 00-0265)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0339 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator	1,211.10	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0340 WK 3/8 CY Hydraulic Excavator With Full-Time Operator	5,502.68	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0341 MO 3/8 CY Hydraulic Excavator With Full-Time Operator	22,531.67	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0342 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator	1,317.47	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0343 WK 1/2 CY Hydraulic Excavator With Full-Time Operator	5,971.54	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0344 MO 1/2 CY Hydraulic Excavator With Full-Time Operator	24,407.13	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0345 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator	1,351.06	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0346 WK 5/8 CY Hydraulic Excavator With Full-Time Operator	6,146.49	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0347 MO 5/8 CY Hydraulic Excavator With Full-Time Operator	24,715.05	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0348 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator	1,386.05	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0349 WK 3/4 CY Hydraulic Excavator With Full-Time Operator	6,307.45	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0350 MO 3/4 CY Hydraulic Excavator With Full-Time Operator	25,022.96	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0351 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	1,414.04	
<i>For Equipment Without Operator, Deduct</i>	-833.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0352 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	6,475.40	
For Equipment Without Operator, Deduct	-4,166.06	
01 22 23 00-0353 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	25,330.87	
For Equipment Without Operator, Deduct	-18,052.95	
01 22 23 00-0354 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator.....	1,791.94	
For Equipment Without Operator, Deduct	-833.21	
01 22 23 00-0355 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator.....	7,979.97	
For Equipment Without Operator, Deduct	-4,166.06	
01 22 23 00-0356 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator.....	29,494.68	
For Equipment Without Operator, Deduct	-18,052.95	
01 22 23 00-0357 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator.....	1,847.92	
For Equipment Without Operator, Deduct	-833.21	
01 22 23 00-0358 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator.....	8,224.90	
For Equipment Without Operator, Deduct	-4,166.06	
01 22 23 00-0359 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator.....	30,229.47	
For Equipment Without Operator, Deduct	-18,052.95	
01 22 23 00-0360 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator.....	1,952.89	
For Equipment Without Operator, Deduct	-833.21	
01 22 23 00-0361 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator.....	8,644.78	
For Equipment Without Operator, Deduct	-4,166.06	
01 22 23 00-0362 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator.....	31,489.11	
For Equipment Without Operator, Deduct	-18,052.95	
01 22 23 00-0363 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	2,071.86	
For Equipment Without Operator, Deduct	-833.21	
01 22 23 00-0364 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	9,113.65	
For Equipment Without Operator, Deduct	-4,166.06	
01 22 23 00-0365 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	32,888.71	
For Equipment Without Operator, Deduct	-18,052.95	
01 22 23 00-0366 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....	2,106.85	
For Equipment Without Operator, Deduct	-833.21	
01 22 23 00-0367 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....	9,253.61	
For Equipment Without Operator, Deduct	-4,166.06	
01 22 23 00-0368 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....	33,308.59	
For Equipment Without Operator, Deduct	-18,052.95	
01 22 23 00-0369 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,442.75	
For Equipment Without Operator, Deduct	-833.21	
01 22 23 00-0370 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	10,604.22	
For Equipment Without Operator, Deduct	-4,166.06	
01 22 23 00-0371 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	37,367.43	
For Equipment Without Operator, Deduct	-18,052.95	
01 22 23 00-0372 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,925.61	
For Equipment Without Operator, Deduct	-833.21	
01 22 23 00-0373 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	12,521.67	
For Equipment Without Operator, Deduct	-4,166.06	
01 22 23 00-0374 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	43,105.79	
For Equipment Without Operator, Deduct	-18,052.95	
01 22 23 00-0375 DAY 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	3,520.44	
For Equipment Without Operator, Deduct	-833.21	
01 22 23 00-0376 WK 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	14,900.99	
For Equipment Without Operator, Deduct	-4,166.06	
01 22 23 00-0377 MO 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	50,243.75	
For Equipment Without Operator, Deduct	-18,052.95	
01 22 23 00-0378 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators.....	97.97	
01 22 23 00-0379 WK Thumbs Or Grapple Attachment For Hydraulic Excavators.....	377.89	
01 22 23 00-0380 MO Thumbs Or Grapple Attachment For Hydraulic Excavators.....	1,119.68	
01 22 23 00-0381 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	433.88	
01 22 23 00-0382 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,147.67	
01 22 23 00-0383 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	3,212.08	
01 22 23 00-0384 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	671.81	
01 22 23 00-0385 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,714.51	
01 22 23 00-0386 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,457.73	
01 22 23 00-0387 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	937.73	
01 22 23 00-0388 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,526.28	
01 22 23 00-0389 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	7,081.98	
01 22 23 00-0390 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators.....	195.94	
01 22 23 00-0391 WK 24" Compaction Wheel Attachment For Hydraulic Excavators.....	783.78	
01 22 23 00-0392 MO 24" Compaction Wheel Attachment For Hydraulic Excavators.....	2,351.33	
01 22 23 00-0393 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators.....	279.92	
01 22 23 00-0394 WK 36" Compaction Wheel Attachment For Hydraulic Excavators.....	1,119.68	
01 22 23 00-0395 MO 36" Compaction Wheel Attachment For Hydraulic Excavators.....	3,359.04	
01 22 23 00-0396 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators.....	307.91	
01 22 23 00-0397 WK 48" Compaction Wheel Attachment For Hydraulic Excavators.....	1,217.65	
01 22 23 00-0398 MO 48" Compaction Wheel Attachment For Hydraulic Excavators.....	3,638.96	
01 22 23 00-0399 Mini-Excavators <small>(01 22 23 00-0265)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0400 DAY 2,000 LB Mini-Excavator With Full-Time Operator.....	1,127.13	
For Equipment Without Operator, Deduct	-833.21	
01 22 23 00-0401 WK 2,000 LB Mini-Excavator With Full-Time Operator.....	4,998.82	
For Equipment Without Operator, Deduct	-4,166.06	
01 22 23 00-0402 MO 2,000 LB Mini-Excavator With Full-Time Operator.....	19,886.43	
For Equipment Without Operator, Deduct	-18,052.95	

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01 22 23 00-0403 DAY 3,500 LB Mini-Excavator With Full-Time Operator.....	1,134.12	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0404 WK 3,500 LB Mini-Excavator With Full-Time Operator.....	5,019.82	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0405 MO 3,500 LB Mini-Excavator With Full-Time Operator.....	20,327.30	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0406 DAY 6,000 LB Mini-Excavator With Full-Time Operator.....	1,169.11	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0407 WK 6,000 LB Mini-Excavator With Full-Time Operator.....	5,117.79	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0408 MO 6,000 LB Mini-Excavator With Full-Time Operator.....	20,390.28	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0409 DAY 7,500 LB Mini-Excavator With Full-Time Operator.....	1,183.11	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0410 WK 7,500 LB Mini-Excavator With Full-Time Operator.....	5,166.77	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0411 MO 7,500 LB Mini-Excavator With Full-Time Operator.....	20,418.27	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0412 DAY 9,500 LB Mini-Excavator With Full-Time Operator.....	1,267.09	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0413 WK 9,500 LB Mini-Excavator With Full-Time Operator.....	5,236.75	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0414 MO 9,500 LB Mini-Excavator With Full-Time Operator.....	21,230.04	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0415 DAY 11,000 LB Mini-Excavator With Full-Time Operator.....	1,274.08	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0416 WK 11,000 LB Mini-Excavator With Full-Time Operator.....	5,586.65	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0417 MO 11,000 LB Mini-Excavator With Full-Time Operator.....	21,265.03	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0418 Road Graders <small>(01 22 23 00-0265)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0419 DAY 60 HP Road Grader With Full-Time Operator.....	1,553.64	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0420 WK 60 HP Road Grader With Full-Time Operator.....	6,114.92	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0421 MO 60 HP Road Grader With Full-Time Operator.....	23,881.06	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0422 DAY 80 HP Road Grader With Full-Time Operator.....	1,766.08	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0423 WK 80 HP Road Grader With Full-Time Operator.....	6,706.05	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0424 MO 80 HP Road Grader With Full-Time Operator.....	25,672.91	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0425 DAY 130 HP Road Grader With Full-Time Operator.....	1,622.22	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0426 WK 130 HP Road Grader With Full-Time Operator.....	7,322.11	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0427 MO 130 HP Road Grader With Full-Time Operator.....	29,331.67	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0428 Loader-Backhoes With Standard Bucket <small>(01 22 23 00-0265)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0429 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	1,172.37	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0430 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	4,971.57	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0431 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	19,948.63	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0432 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	1,208.71	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0433 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	5,098.76	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0434 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	20,723.87	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0435 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	1,264.74	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0436 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	5,238.06	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0437 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	21,123.60	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0438 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	1,514.57	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0439 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	5,983.01	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0440 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	23,255.48	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0441 Heavy Duty Construction Loaders <small>(01 22 23 00-0265)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0442 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator	1,388.21	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0443 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator	6,360.45	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0444 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator	24,627.59	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0445 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator	1,849.29	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0446 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator	6,864.23	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0447 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator	24,883.75	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0448 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator	1,951.75	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0449 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator	7,137.46	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0450 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator	25,566.83	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0451 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	2,233.52	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0452 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	7,880.31	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0453 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	27,445.30	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0454 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	2,959.30	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0455 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	12,653.33	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0456 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	43,497.68	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0457 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	7,740.77	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
01 22 23 00-0458 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	26,596.46	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
01 22 23 00-0459 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	79,181.86	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
01 22 23 00-0460 Gradall, Telescopic Hydraulic Excavators <small>(01 22 23 00-0265)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0461 DAY Gradall, Telescopic Hydraulic Excavator With Full-Time Operator	2,778.32	
<i>For Equipment Without Operator, Deduct</i>	-833.21	
<i>For Track Gradall, Add</i>	233.41	
01 22 23 00-0462 WK Gradall, Telescopic Hydraulic Excavator With Full-Time Operator	11,937.82	
<i>For Equipment Without Operator, Deduct</i>	-4,166.06	
<i>For Track Gradall, Add</i>	932.61	
01 22 23 00-0463 MO Gradall, Telescopic Hydraulic Excavator With Full-Time Operator	45,791.47	
<i>For Equipment Without Operator, Deduct</i>	-18,052.95	
<i>For Track Gradall, Add</i>	3,328.62	
01 22 23 00-0464 Shoring <small>(01 22 23 00-0265)</small>		
<i>Note: Includes delivery to job site and pick-up when complete.</i>		
01 22 23 00-0465 Aluminum Hydraulic Shoring <small>(01 22 23 00-0464)</small>		
<i>Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.</i>		
01 22 23 00-0466 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	111.58	
<i>Note: Up to 88" spread width.</i>		
01 22 23 00-0467 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	329.12	
<i>Note: Up to 88" spread width.</i>		
01 22 23 00-0468 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring	149.69	
<i>Note: Up to 88" spread width.</i>		
01 22 23 00-0469 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring	441.51	
<i>Note: Up to 88" spread width.</i>		
01 22 23 00-0470 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring	277.56	
<i>Note: Up to 88" spread width.</i>		
01 22 23 00-0471 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring	818.79	
<i>Note: Up to 88" spread width.</i>		
01 22 23 00-0472 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores	26.92	
01 22 23 00-0473 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores	43.07	
01 22 23 00-0474 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores	71.78	
01 22 23 00-0475 Trench Boxes/Trench Shields <small>(01 22 23 00-0265)</small>		
<i>Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.</i>		
01 22 23 00-0476 WK 4' x 6' Trench Box With Up To 48" Spreaders	229.62	
01 22 23 00-0477 MO 4' x 6' Trench Box With Up To 48" Spreaders	688.85	
01 22 23 00-0478 WK 6' x 6' Trench Box With Up To 48" Spreaders	259.24	
01 22 23 00-0479 MO 6' x 6' Trench Box With Up To 48" Spreaders	777.74	
01 22 23 00-0480 WK 8' x 6' Trench Box With Up To 48" Spreaders	274.06	
01 22 23 00-0481 MO 8' x 6' Trench Box With Up To 48" Spreaders	822.18	
01 22 23 00-0482 WK 4' x 8' Trench Box With Up To 48" Spreaders	251.84	
01 22 23 00-0483 MO 4' x 8' Trench Box With Up To 48" Spreaders	755.51	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-0484	WK	6' x 8' Trench Box With Up To 48" Spreaders.....	296.28	
01 22 23 00-0485	MO	6' x 8' Trench Box With Up To 48" Spreaders.....	888.84	
01 22 23 00-0486	WK	8' x 8' Trench Box With Up To 48" Spreaders.....	333.32	
01 22 23 00-0487	MO	8' x 8' Trench Box With Up To 48" Spreaders.....	999.94	
01 22 23 00-0488	WK	4' x 10' Trench Box With Up To 48" Spreaders.....	281.47	
01 22 23 00-0489	MO	4' x 10' Trench Box With Up To 48" Spreaders.....	844.40	
01 22 23 00-0490	WK	6' x 10' Trench Box With Up To 48" Spreaders.....	333.32	
01 22 23 00-0491	MO	6' x 10' Trench Box With Up To 48" Spreaders.....	999.94	
01 22 23 00-0492	WK	8' x 10' Trench Box With Up To 48" Spreaders.....	407.38	
01 22 23 00-0493	MO	8' x 10' Trench Box With Up To 48" Spreaders.....	1,214.75	
01 22 23 00-0494	WK	4' x 12' Trench Box With Up To 48" Spreaders.....	333.32	
01 22 23 00-0495	MO	4' x 12' Trench Box With Up To 48" Spreaders.....	999.94	
01 22 23 00-0496	WK	6' x 12' Trench Box With Up To 48" Spreaders.....	407.38	
01 22 23 00-0497	MO	6' x 12' Trench Box With Up To 48" Spreaders.....	1,222.16	
01 22 23 00-0498	WK	8' x 12' Trench Box With Up To 48" Spreaders.....	518.49	
01 22 23 00-0499	MO	8' x 12' Trench Box With Up To 48" Spreaders.....	1,555.47	
01 22 23 00-0500	WK	4' x 14' Trench Box With Up To 48" Spreaders.....	370.35	
01 22 23 00-0501	MO	4' x 14' Trench Box With Up To 48" Spreaders.....	1,111.05	
01 22 23 00-0502	WK	6' x 14' Trench Box With Up To 48" Spreaders.....	481.46	
01 22 23 00-0503	MO	6' x 14' Trench Box With Up To 48" Spreaders.....	1,444.36	
01 22 23 00-0504	WK	8' x 14' Trench Box With Up To 48" Spreaders.....	592.56	
01 22 23 00-0505	MO	8' x 14' Trench Box With Up To 48" Spreaders.....	1,777.68	
01 22 23 00-0506	WK	4' x 16' Trench Box With Up To 48" Spreaders.....	407.38	
01 22 23 00-0507	MO	4' x 16' Trench Box With Up To 48" Spreaders.....	1,222.16	
01 22 23 00-0508	WK	6' x 16' Trench Box With Up To 48" Spreaders.....	555.52	
01 22 23 00-0509	MO	6' x 16' Trench Box With Up To 48" Spreaders.....	1,666.58	
01 22 23 00-0510	WK	8' x 16' Trench Box With Up To 48" Spreaders.....	666.63	
01 22 23 00-0511	MO	8' x 16' Trench Box With Up To 48" Spreaders.....	1,999.89	
01 22 23 00-0512	WK	4' x 20' Trench Box With Up To 48" Spreaders.....	481.46	
01 22 23 00-0513	MO	4' x 20' Trench Box With Up To 48" Spreaders.....	1,444.36	
01 22 23 00-0514	WK	6' x 20' Trench Box With Up To 48" Spreaders.....	666.63	
01 22 23 00-0515	MO	6' x 20' Trench Box With Up To 48" Spreaders.....	1,999.89	
01 22 23 00-0516	WK	8' x 20' Trench Box With Up To 48" Spreaders.....	777.74	
01 22 23 00-0517	MO	8' x 20' Trench Box With Up To 48" Spreaders.....	2,333.20	
01 22 23 00-0518	WK	4' x 24' Trench Box With Up To 48" Spreaders.....	666.63	
01 22 23 00-0519	MO	4' x 24' Trench Box With Up To 48" Spreaders.....	1,999.89	
01 22 23 00-0520	WK	6' x 24' Trench Box With Up To 48" Spreaders.....	814.77	
01 22 23 00-0521	MO	6' x 24' Trench Box With Up To 48" Spreaders.....	2,444.31	
01 22 23 00-0522	WK	8' x 24' Trench Box With Up To 48" Spreaders.....	888.84	
01 22 23 00-0523	MO	8' x 24' Trench Box With Up To 48" Spreaders.....	2,666.52	
01 22 23 00-0524	WK	For Spreaders >48" To 84", Add.....	22.22	
01 22 23 00-0525	MO	For Spreaders >48" To 84", Add.....	66.66	
01 22 23 00-0526	WK	For Spreaders >84" To 120", Add.....	133.33	
01 22 23 00-0527	MO	For Spreaders >84" To 120", Add.....	399.98	
01 22 23 00-0528	WK	For Spreaders >120", Add.....	281.47	
01 22 23 00-0529	MO	For Spreaders >120", Add.....	844.40	
01 22 23 00-0530	WK	8' x 4' Manhole Box.....	349.98	
01 22 23 00-0531	MO	8' x 4' Manhole Box.....	1,049.94	
01 22 23 00-0532	WK	8' x 8' Manhole Box.....	499.97	
01 22 23 00-0533	MO	8' x 8' Manhole Box.....	1,499.92	

01 22 23 00-0534 Trenchers (01 22 23 00-0265)

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0535	DAY	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,200.77	
		<i>For Equipment Without Operator, Deduct</i>	-791.07	
01 22 23 00-0536	WK	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	5,350.86	
		<i>For Equipment Without Operator, Deduct</i>	-3,955.33	
01 22 23 00-0537	MO	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	20,980.66	
		<i>For Equipment Without Operator, Deduct</i>	-17,139.76	
01 22 23 00-0538	DAY	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,892.13	
		<i>For Equipment Without Operator, Deduct</i>	-791.07	
01 22 23 00-0539	WK	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	7,681.00	
		<i>For Equipment Without Operator, Deduct</i>	-3,955.33	
01 22 23 00-0540	MO	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	27,382.16	
		<i>For Equipment Without Operator, Deduct</i>	-17,139.76	

01 22 23 00-0541 Portable Sediment Tank (01 22 23 00-0265)

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0542	WK	Portable Sediment Tank.....	193.32	
01 22 23 00-0543	MO	Portable Sediment Tank.....	567.07	

01 22 23 00-0544 Heavy Equipment (Ground Protection) Mats (01 22 23 00-0265)

Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0265 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

01 22 23 00-0545	DAY	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	35.15	
01 22 23 00-0546	WK	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	83.68	
01 22 23 00-0547	MO	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	175.73	
01 22 23 00-0548	DAY	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	36.90	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0549	WK			16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	87.86	
01 22 23 00-0550	MO			16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	184.52	
01 22 23 00-0551	Day			16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	29.87	
01 22 23 00-0552	WK			16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	70.29	
01 22 23 00-0553	MO			16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	149.37	
01 22 23 00-0554	Day			18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	33.39	
01 22 23 00-0555	WK			18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	79.08	
01 22 23 00-0556	MO			18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	166.94	
01 22 23 00-0557	Day			20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	36.90	
01 22 23 00-0558	WK			20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	87.86	
01 22 23 00-0559	MO			20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	184.52	
01 22 23 00-0560	Day			24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	40.42	
01 22 23 00-0561	WK			24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	96.23	
01 22 23 00-0562	MO			24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	202.09	
01 22 23 00-0563	Day			12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	31.63	
01 22 23 00-0564	WK			12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	87.86	
01 22 23 00-0565	MO			12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	158.16	
01 22 23 00-0566	Day			16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	36.90	
01 22 23 00-0567	WK			16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	87.86	
01 22 23 00-0568	MO			16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	184.52	
01 22 23 00-0569	Day			20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	43.93	
01 22 23 00-0570	WK			20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	96.65	
01 22 23 00-0571	MO			20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	219.66	
01 22 23 00-0572	Day			24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	47.45	
01 22 23 00-0573	WK			24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	112.97	
01 22 23 00-0574	MO			24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	237.24	
01 22 23 00-0575	Day			28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	50.96	
01 22 23 00-0576	WK			28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	121.34	
01 22 23 00-0577	MO			28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	254.81	
01 22 23 00-0578	Day			30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	52.72	
01 22 23 00-0579	WK			30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	125.52	
01 22 23 00-0580	MO			30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	263.60	
01 22 23 00-0581	Day			14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	16.91	
01 22 23 00-0582	WK			14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	42.26	
01 22 23 00-0583	MO			14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	126.79	
01 22 23 00-0584	Day			14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	20.21	
01 22 23 00-0585	WK			14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	50.52	
01 22 23 00-0586	MO			14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	151.57	
01 22 23 00-0587	Day			16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	23.08	
01 22 23 00-0588	WK			16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	57.70	
01 22 23 00-0589	MO			16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	173.09	
01 22 23 00-0590	Day			14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	24.60	
01 22 23 00-0591	WK			14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	61.51	
01 22 23 00-0592	MO			14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	184.52	
01 22 23 00-0593	Day			16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	28.12	
01 22 23 00-0594	WK			16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	70.29	
01 22 23 00-0595	MO			16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	210.88	
01 22 23 00-0596	Day			16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	32.31	
01 22 23 00-0597	WK			16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	80.78	
01 22 23 00-0598	MO			16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	242.33	
01 22 23 00-0599	Day			24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	24.86	
01 22 23 00-0600	WK			24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	62.15	
01 22 23 00-0601	MO			24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	186.45	
01 22 23 00-0602	Day			30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	33.66	
01 22 23 00-0603	WK			30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	84.15	
01 22 23 00-0604	MO			30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	252.44	
01 22 23 00-0605	Day			24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	29.10	
01 22 23 00-0606	WK			24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	72.75	
01 22 23 00-0607	MO			24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	218.26	
01 22 23 00-0608	Day			40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	48.53	
01 22 23 00-0609	WK			40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	121.34	
01 22 23 00-0610	MO			40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	364.01	
01 22 23 00-0611	Day			40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	51.73	
01 22 23 00-0612	WK			40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	129.34	
01 22 23 00-0613	MO			40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	388.01	

01 22 23 00-0614 **Electrical Equipment** (01 22 23)

01 22 23 00-0615 **Tripod Mounted Floodlights** (01 22 23 00-0614)

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0616	DAY			500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	62.62	
01 22 23 00-0617	WK			500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	148.14	
01 22 23 00-0618	MO			500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	313.08	
01 22 23 00-0619	DAY			1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	62.62	
01 22 23 00-0620	WK			1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	183.26	
01 22 23 00-0621	MO			1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	542.16	
01 22 23 00-0622	DAY			2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	70.25	
01 22 23 00-0623	WK			2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	190.90	
01 22 23 00-0624	MO			2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	465.80	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0625	Trailer Mounted Floodlights <small>(01 22 23 00-0614)</small>	
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0626 DAY	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	175.63
01 22 23 00-0627 WK	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	389.44
01 22 23 00-0628 MO	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	839.96
01 22 23 00-0629	Generator Sets <small>(01 22 23 00-0614)</small>	
01 22 23 00-0630	Portable, Gas Or Diesel Powered Generator Sets <small>(01 22 23 00-0629)</small>	
Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0631 DAY	3.6 KW, 8 HP Gas Powered Generator Set	52.78
	<i>For LP Or NG Gas, Add</i>	6.60
	<i>For >160 To 320 Hours Usage Per Month, Add</i>	26.39
01 22 23 00-0632 WK	3.6 KW, 8 HP Gas Powered Generator Set	190.25
	<i>For LP Or NG Gas, Add</i>	23.78
01 22 23 00-0633 MO	3.6 KW, 8 HP Gas Powered Generator Set	527.78
	<i>For LP Or NG Gas, Add</i>	65.97
01 22 23 00-0634 DAY	5 KW, 11 HP Gas Powered Generator Set	74.87
	<i>For LP Or NG Gas, Add</i>	9.36
01 22 23 00-0635 WK	5 KW, 11 HP Gas Powered Generator Set	239.34
	<i>For LP Or NG Gas, Add</i>	29.92
01 22 23 00-0636 MO	5 KW, 11 HP Gas Powered Generator Set	546.19
	<i>For LP Or NG Gas, Add</i>	68.27
01 22 23 00-0637 DAY	6.5 KW, 13 HP Gas Powered Generator Set	95.74
	<i>For LP Or NG Gas, Add</i>	11.97
01 22 23 00-0638 WK	6.5 KW, 13 HP Gas Powered Generator Set	257.75
	<i>For LP Or NG Gas, Add</i>	32.22
01 22 23 00-0639 MO	6.5 KW, 13 HP Gas Powered Generator Set	711.89
	<i>For LP Or NG Gas, Add</i>	88.99
01 22 23 00-0640 DAY	10 KW, 18 HP Gas Powered Generator Set	106.78
	<i>For LP Or NG Gas, Add</i>	13.35
01 22 23 00-0641 WK	10 KW, 18 HP Gas Powered Generator Set	288.44
	<i>For LP Or NG Gas, Add</i>	36.06
01 22 23 00-0642 MO	10 KW, 18 HP Gas Powered Generator Set	828.50
	<i>For LP Or NG Gas, Add</i>	103.56
01 22 23 00-0643	Towable, Diesel Powered Generator Sets <small>(01 22 23 00-0629)</small>	
Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0644 DAY	20 KW, 60 Hertz Towable Diesel Powered Generator Set	219.70
	Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.	
	<i>For >8 To 16 Hours Usage Per Day, Add</i>	109.85
	<i>For >16 To 24 Hours Usage Per Day, Add</i>	219.70
01 22 23 00-0645 WK	20 KW, 60 Hertz Towable Diesel Powered Generator Set	574.42
	Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.	
	<i>For >40 To 80 Hours Usage Per Week, Add</i>	287.21
	<i>For >80 Hours Usage Per Week, Add</i>	574.42
01 22 23 00-0646 MO	20 KW, 60 Hertz Towable Diesel Powered Generator Set	1,564.94
	Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.	
	<i>For >160 To 320 Hours Usage Per Month, Add</i>	782.47
	<i>For >320 Hours Usage Per Month, Add</i>	1,564.94
01 22 23 00-0647 DAY	30 KW, 60 Hertz Towable Diesel Powered Generator Set	335.48
	Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.	
	<i>For >8 To 16 Hours Usage Per Day, Add</i>	167.74
	<i>For >16 To 24 Hours Usage Per Day, Add</i>	335.48
01 22 23 00-0648 WK	30 KW, 60 Hertz Towable Diesel Powered Generator Set	995.62
	Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.	
	<i>For >40 To 80 Hours Usage Per Week, Add</i>	497.81
	<i>For >80 Hours Usage Per Week, Add</i>	995.62
01 22 23 00-0649 MO	30 KW, 60 Hertz Towable Diesel Powered Generator Set	2,056.18
	Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.	
	<i>For >160 To 320 Hours Usage Per Month, Add</i>	1,028.09
	<i>For >320 Hours Usage Per Month, Add</i>	2,056.18
01 22 23 00-0650 DAY	40.0 KW, 60 Hertz Towable Diesel Powered Generator Set	367.95
	Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.	
	<i>For >8 To 16 Hours Usage Per Day, Add</i>	183.98
	<i>For >16 To 24 Hours Usage Per Day, Add</i>	367.95
01 22 23 00-0651 WK	40.0 KW, 60 Hertz Towable Diesel Powered Generator Set	1,028.09
	Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.	
	<i>For >40 To 80 Hours Usage Per Week, Add</i>	514.05
	<i>For >80 Hours Usage Per Week, Add</i>	1,028.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0652 MO 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	2,272.62 1,136.31 2,272.62	
01 22 23 00-0653 DAY 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	395.00 197.50 395.00	
01 22 23 00-0654 WK 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	1,082.20 541.10 1,082.20	
01 22 23 00-0655 MO 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	2,597.28 1,298.64 2,597.28	
01 22 23 00-0656 DAY 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	432.88 216.44 432.88	
01 22 23 00-0657 WK 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	1,228.30 614.15 1,228.30	
01 22 23 00-0658 MO 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	2,921.94 1,460.97 2,921.94	
01 22 23 00-0659 DAY 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	486.99 243.50 486.99	
01 22 23 00-0660 WK 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	1,298.64 649.32 1,298.64	
01 22 23 00-0661 MO 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	3,246.60 1,623.30 3,246.60	
01 22 23 00-0662 DAY 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	503.22 251.61 503.22	
01 22 23 00-0663 WK 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	1,352.75 676.38 1,352.75	
01 22 23 00-0664 MO 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	3,679.48 1,839.74 3,679.48	
01 22 23 00-0665 DAY 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	568.16 284.08 568.16	
01 22 23 00-0666 WK 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	1,569.19 784.60 1,569.19	
01 22 23 00-0667 MO 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	4,220.58 2,110.29 4,220.58	
01 22 23 00-0668 DAY 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	595.21 297.61 595.21	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0669 WK 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,650.36	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	825.18	
For >80 Hours Usage Per Week, Add	1,650.36	
01 22 23 00-0670 MO 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,653.46	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,326.73	
For >320 Hours Usage Per Month, Add	4,653.46	
01 22 23 00-0671 DAY 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	622.26	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	311.13	
For >16 To 24 Hours Usage Per Day, Add	622.26	
01 22 23 00-0672 WK 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,785.63	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	892.82	
For >80 Hours Usage Per Week, Add	1,785.63	
01 22 23 00-0673 MO 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,869.90	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,434.95	
For >320 Hours Usage Per Month, Add	4,869.90	
01 22 23 00-0674 DAY 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	649.32	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	324.66	
For >16 To 24 Hours Usage Per Day, Add	649.32	
01 22 23 00-0675 WK 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,893.85	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	946.93	
For >80 Hours Usage Per Week, Add	1,893.85	
01 22 23 00-0676 MO 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,086.34	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,543.17	
For >320 Hours Usage Per Month, Add	5,086.34	
01 22 23 00-0677 DAY 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	649.32	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	324.66	
For >16 To 24 Hours Usage Per Day, Add	649.32	
01 22 23 00-0678 WK 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,893.85	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	946.93	
For >80 Hours Usage Per Week, Add	1,893.85	
01 22 23 00-0679 MO 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,086.34	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,543.17	
For >320 Hours Usage Per Month, Add	5,086.34	
01 22 23 00-0680 DAY 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	892.82	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	446.41	
For >16 To 24 Hours Usage Per Day, Add	892.82	
01 22 23 00-0681 WK 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,218.51	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,109.26	
For >80 Hours Usage Per Week, Add	2,218.51	
01 22 23 00-0682 MO 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,493.20	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,246.60	
For >320 Hours Usage Per Month, Add	6,493.20	
01 22 23 00-0683 DAY 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	946.92	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	473.46	
For >16 To 24 Hours Usage Per Day, Add	946.92	
01 22 23 00-0684 WK 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,272.62	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,136.31	
For >80 Hours Usage Per Week, Add	2,272.62	
01 22 23 00-0685 MO 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,709.64	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,354.82	
For >320 Hours Usage Per Month, Add	6,709.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0686 DAY 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,001.04 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 500.52 <i>For >16 To 24 Hours Usage Per Day, Add</i> 1,001.04	1,001.04	
01 22 23 00-0687 WK 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set 2,326.73 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,163.37 <i>For >80 Hours Usage Per Week, Add</i> 2,326.73	2,326.73	
01 22 23 00-0688 MO 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set 6,926.08 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,463.04 <i>For >320 Hours Usage Per Month, Add</i> 6,926.08	6,926.08	
01 22 23 00-0689 DAY 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,033.50 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 516.75 <i>For >16 To 24 Hours Usage Per Day, Add</i> 1,033.50	1,033.50	
01 22 23 00-0690 WK 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set 2,489.06 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,244.53 <i>For >80 Hours Usage Per Week, Add</i> 2,489.06	2,489.06	
01 22 23 00-0691 MO 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set 7,358.96 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,679.48 <i>For >320 Hours Usage Per Month, Add</i> 7,358.96	7,358.96	
01 22 23 00-0692 DAY 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,082.20 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 541.10 <i>For >16 To 24 Hours Usage Per Day, Add</i> 1,082.20	1,082.20	
01 22 23 00-0693 WK 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set 2,813.72 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,406.86 <i>For >80 Hours Usage Per Week, Add</i> 2,813.72	2,813.72	
01 22 23 00-0694 MO 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set 8,116.50 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 4,058.25 <i>For >320 Hours Usage Per Month, Add</i> 8,116.50	8,116.50	
01 22 23 00-0695 DAY 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,523.92 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 761.96 <i>For >16 To 24 Hours Usage Per Day, Add</i> 1,523.92	1,523.92	
01 22 23 00-0696 WK 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set 3,940.06 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,970.03 <i>For >80 Hours Usage Per Week, Add</i> 3,940.06	3,940.06	
01 22 23 00-0697 MO 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set 10,420.00 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 5,210.00 <i>For >320 Hours Usage Per Month, Add</i> 10,420.00	10,420.00	
01 22 23 00-0698 DAY 500.0 KW, 60 Hertz Container Diesel Powered Generator Set 1,953.75 Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 976.88 <i>For >16 To 24 Hours Usage Per Day, Add</i> 1,953.75	1,953.75	
01 22 23 00-0699 WK 500.0 KW, 60 Hertz Container Diesel Powered Generator Set 5,079.75 Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 2,539.88 <i>For >80 Hours Usage Per Week, Add</i> 5,079.75	5,079.75	
01 22 23 00-0700 MO 500.0 KW, 60 Hertz Container Diesel Powered Generator Set 11,722.50 Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 5,861.25 <i>For >320 Hours Usage Per Month, Add</i> 11,722.50	11,722.50	
01 22 23 00-0701 DAY 640.0 KW, 60 Hertz Container Diesel Powered Generator Set 2,416.14 Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 1,208.07 <i>For >16 To 24 Hours Usage Per Day, Add</i> 2,416.14	2,416.14	
01 22 23 00-0702 WK 640.0 KW, 60 Hertz Container Diesel Powered Generator Set 6,382.25 Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 3,191.13 <i>For >80 Hours Usage Per Week, Add</i> 6,382.25	6,382.25	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0703 MO 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	15,630.00	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	7,815.00	
For >320 Hours Usage Per Month, Add	15,630.00	
01 22 23 00-0704 DAY 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,611.51	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,305.76	
For >16 To 24 Hours Usage Per Day, Add	2,611.51	
01 22 23 00-0705 WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,017.55	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	3,008.78	
For >80 Hours Usage Per Week, Add	6,017.55	
01 22 23 00-0706 MO 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	18,052.65	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	9,026.33	
For >320 Hours Usage Per Month, Add	18,052.65	
01 22 23 00-0707 EA Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up	860.60	
01 22 23 00-0708 EA 350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up	1,396.55	
01 22 23 00-0709 Cabling For Generator Sets (01 22 23 00-0629)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0710 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	23.81	
01 22 23 00-0711 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	41.66	
01 22 23 00-0712 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	124.99	
01 22 23 00-0713 DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....	11.90	
01 22 23 00-0714 WK 50', 4/0 Cable With Camlock Ends For Generator Set.....	34.63	
01 22 23 00-0715 MO 50', 4/0 Cable With Camlock Ends For Generator Set.....	96.32	
01 22 23 00-0716 Generator Accessories (01 22 23 00-0629)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0717 Step Down Transformer (01 22 23 00-0716)		
01 22 23 00-0718 WK 75 KVA, 480-208 Volt, Step Down Transformer	319.25	
01 22 23 00-0719 MO 75 KVA, 480-208 Volt, Step Down Transformer	892.82	
01 22 23 00-0720 WK 150 KVA, 480-208 Volt, Step Down Transformer	511.88	
01 22 23 00-0721 MO 150 KVA, 480-208 Volt, Step Down Transformer	1,534.56	
01 22 23 00-0722 WK 225 KVA, 480-208 Volt, Step Down Transformer	681.79	
01 22 23 00-0723 MO 225 KVA, 480-208 Volt, Step Down Transformer	2,045.36	
01 22 23 00-0724 WK 500 KVA, 480-208 Volt, Step Down Transformer	811.65	
01 22 23 00-0725 MO 500 KVA, 480-208 Volt, Step Down Transformer	2,434.95	
01 22 23 00-0726 WK 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	1,212.06	
01 22 23 00-0727 MO 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	3,619.96	
01 22 23 00-0728 WK 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	1,969.60	
01 22 23 00-0729 MO 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	5,903.40	
01 22 23 00-0730 WK 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	2,272.62	
01 22 23 00-0731 MO 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	6,817.86	
01 22 23 00-0732 Portable Panel (01 22 23 00-0716)		
01 22 23 00-0733 WK 100 Amperes, Portable Panel	254.32	
01 22 23 00-0734 MO 100 Amperes, Portable Panel	649.32	
01 22 23 00-0735 WK 200 Amperes, Portable Panel	304.10	
01 22 23 00-0736 MO 200 Amperes, Portable Panel	811.65	
01 22 23 00-0737 WK 400 Amperes, Portable Panel	324.66	
01 22 23 00-0738 MO 400 Amperes, Portable Panel	973.98	
01 22 23 00-0739 Portable Fusible Disconnect (01 22 23 00-0716)		
01 22 23 00-0740 WK 100 - 200 Amperes, Portable Fusible Disconnect.....	113.63	
01 22 23 00-0741 MO 100 - 200 Amperes, Portable Fusible Disconnect.....	340.89	
01 22 23 00-0742 WK 300 - 400 Amperes, Portable Fusible Disconnect.....	227.26	
01 22 23 00-0743 MO 300 - 400 Amperes, Portable Fusible Disconnect.....	681.79	
01 22 23 00-0744 Portable Transfer Switch (01 22 23 00-0716)		
01 22 23 00-0745 WK 100 Amperes, 480 Volt, Portable Transfer Switch	340.89	
01 22 23 00-0746 MO 100 Amperes, 480 Volt, Portable Transfer Switch	1,022.68	
01 22 23 00-0747 WK 200 Amperes, 480 Volt, Portable Transfer Switch	454.52	
01 22 23 00-0748 MO 200 Amperes, 480 Volt, Portable Transfer Switch	1,363.57	
01 22 23 00-0749 WK 400 Amperes, 480 Volt, Portable Transfer Switch	568.16	
01 22 23 00-0750 MO 400 Amperes, 480 Volt, Portable Transfer Switch	1,704.46	
01 22 23 00-0751 Resistive Loadbanks For Generator Sets (01 22 23 00-0629)		
Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0752 DAY 100 KW A/C Resistive Loadbank.....	347.06	
01 22 23 00-0753 WK 100 KW A/C Resistive Loadbank.....	660.10	
01 22 23 00-0754 MO 100 KW A/C Resistive Loadbank.....	1,803.36	
01 22 23 00-0755 DAY 650 KW A/C Resistive Loadbank.....	665.25	
01 22 23 00-0756 WK 650 KW A/C Resistive Loadbank.....	1,779.04	
01 22 23 00-0757 MO 650 KW A/C Resistive Loadbank.....	4,535.78	
01 22 23 00-0758 Sub-Distribution Panels (Spider Box) For Generator Sets (01 22 23 00-0629)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0759 DAY 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	58.44	
01 22 23 00-0760 WK 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	151.51	
01 22 23 00-0761 MO 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	427.47	
01 22 23 00-0762 Portable Distribution Panels For Generator Sets (01 22 23 00-0629)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0763 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	129.86	
01 22 23 00-0764 WK 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	351.72	
01 22 23 00-0765 MO 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	984.80	
01 22 23 00-0766 DAY 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	106.06	
01 22 23 00-0767 WK 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	275.96	
01 22 23 00-0768 MO 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	784.60	
01 22 23 00-0769 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	135.28	
01 22 23 00-0770 WK 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	340.89	
01 22 23 00-0771 MO 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	925.28	
01 22 23 00-0772 Fuel Reimbursement For Generators (01 22 23 00-0629)		
01 22 23 00-0773 EA Fuel Reimbursement For Generators	1.00	
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0774 Portable Floor Drying Fans (01 22 23 00-0614)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0775 DAY 2,250 CFM Portable Floor Drying Fan	16.39	
01 22 23 00-0776 WK 2,250 CFM Portable Floor Drying Fan	75.81	
01 22 23 00-0777 MO 2,250 CFM Portable Floor Drying Fan	250.98	
01 22 23 00-0778 Welding Machines (01 22 23 00-0614)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0779 CC/CV Inverter Welder (01 22 23 00-0778)		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0780 DAY 250 Amperes, CC Inverter Welder.....	41.45	
01 22 23 00-0781 WK 250 Amperes, CC Inverter Welder.....	90.30	
01 22 23 00-0782 MO 250 Amperes, CC Inverter Welder.....	273.86	
01 22 23 00-0783 DAY 300 Amperes, CC/CV Inverter Welder.....	47.37	
01 22 23 00-0784 WK 300 Amperes, CC/CV Inverter Welder.....	125.83	
01 22 23 00-0785 MO 300 Amperes, CC/CV Inverter Welder.....	333.07	
01 22 23 00-0786 DAY 350 Amperes, CC/CV Inverter Welder.....	48.85	
01 22 23 00-0787 WK 350 Amperes, CC/CV Inverter Welder.....	128.79	
01 22 23 00-0788 MO 350 Amperes, CC/CV Inverter Welder.....	362.67	
01 22 23 00-0789 MIG Welder (01 22 23 00-0778)		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0790 DAY 115 Volt MIG Welder	71.05	
01 22 23 00-0791 WK 115 Volt MIG Welder	185.04	
01 22 23 00-0792 MO 115 Volt MIG Welder	503.30	
01 22 23 00-0793 Diesel Powered Towable Welding Machines (01 22 23 00-0778)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0794 DAY 250 To 299 Amperes, Diesel Powered Towable Welding Machine	133.23	
01 22 23 00-0795 WK 250 To 299 Amperes, Diesel Powered Towable Welding Machine	325.67	
01 22 23 00-0796 MO 250 To 299 Amperes, Diesel Powered Towable Welding Machine	777.16	
01 22 23 00-0797 DAY 300 To 349 Amperes, Diesel Powered Towable Welding Machine	177.64	
01 22 23 00-0798 WK 300 To 349 Amperes, Diesel Powered Towable Welding Machine	347.87	
01 22 23 00-0799 MO 300 To 349 Amperes, Diesel Powered Towable Welding Machine	812.68	
01 22 23 00-0800 DAY 350 To 399 Amperes, Diesel Powered Towable Welding Machine	185.04	
01 22 23 00-0801 WK 350 To 399 Amperes, Diesel Powered Towable Welding Machine	370.08	
01 22 23 00-0802 MO 350 To 399 Amperes, Diesel Powered Towable Welding Machine	902.98	
01 22 23 00-0803 General Equipment (01 22 23)		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0804 Jacks And Bracing <small>(01 22 23 00-0803)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0805 Manual Hydraulic Jacks <small>(01 22 23 00-0804)</small>		
01 22 23 00-0806 DAY 12 Ton Manual Hydraulic Bottle Jack	1.67	
01 22 23 00-0807 WK 12 Ton Manual Hydraulic Bottle Jack	7.93	
01 22 23 00-0808 MO 12 Ton Manual Hydraulic Bottle Jack	28.50	
01 22 23 00-0809 DAY 20 Ton Manual Hydraulic Bottle Jack	2.92	
01 22 23 00-0810 WK 20 Ton Manual Hydraulic Bottle Jack	9.18	
01 22 23 00-0811 MO 20 Ton Manual Hydraulic Bottle Jack	34.76	
01 22 23 00-0812 DAY 50 Ton Manual Hydraulic Bottle Jack	10.43	
01 22 23 00-0813 WK 50 Ton Manual Hydraulic Bottle Jack	40.49	
01 22 23 00-0814 MO 50 Ton Manual Hydraulic Bottle Jack	145.66	
01 22 23 00-0815 DAY 100 Ton Manual Hydraulic Bottle Jack	14.61	
01 22 23 00-0816 WK 100 Ton Manual Hydraulic Bottle Jack	58.43	
01 22 23 00-0817 MO 100 Ton Manual Hydraulic Bottle Jack	210.46	
01 22 23 00-0818 Manual Screw Jacks <small>(01 22 23 00-0804)</small>		
01 22 23 00-0819 DAY 10 To 20 Ton Manual Screw Jack	26.41	
01 22 23 00-0820 WK 10 To 20 Ton Manual Screw Jack	71.09	
01 22 23 00-0821 MO 10 To 20 Ton Manual Screw Jack	197.03	
01 22 23 00-0822 Pressure Washers <small>(01 22 23 00-0803)</small> Note: Includes delivery to job site, pick-up when complete and full time operator.		
01 22 23 00-0823 DAY 2,000 PSI Pressure Washer With Full-Time Operator	853.90	
For Equipment Without Operator, Deduct	-684.15	
01 22 23 00-0824 WK 2,000 PSI Pressure Washer With Full-Time Operator	3,851.65	
For Equipment Without Operator, Deduct	-3,420.74	
01 22 23 00-0825 MO 2,000 PSI Pressure Washer With Full-Time Operator	15,920.06	
For Equipment Without Operator, Deduct	-14,823.19	
01 22 23 00-0826 DAY 2,500 PSI Pressure Washer With Full-Time Operator	830.99	
For Equipment Without Operator, Deduct	-684.15	
01 22 23 00-0827 WK 2,500 PSI Pressure Washer With Full-Time Operator	3,793.48	
For Equipment Without Operator, Deduct	-3,420.74	
01 22 23 00-0828 MO 2,500 PSI Pressure Washer With Full-Time Operator	15,771.97	
For Equipment Without Operator, Deduct	-14,823.19	
01 22 23 00-0829 DAY 3,000 PSI Pressure Washer With Full-Time Operator	853.90	
For Equipment Without Operator, Deduct	-684.15	
01 22 23 00-0830 WK 3,000 PSI Pressure Washer With Full-Time Operator	3,851.65	
For Equipment Without Operator, Deduct	-3,420.74	
01 22 23 00-0831 MO 3,000 PSI Pressure Washer With Full-Time Operator	15,920.06	
For Equipment Without Operator, Deduct	-14,823.19	
01 22 23 00-0832 DAY 3,500 PSI Pressure Washer With Full-Time Operator	842.28	
For Equipment Without Operator, Deduct	-684.15	
01 22 23 00-0833 WK 3,500 PSI Pressure Washer With Full-Time Operator	3,827.36	
For Equipment Without Operator, Deduct	-3,420.74	
01 22 23 00-0834 MO 3,500 PSI Pressure Washer With Full-Time Operator	15,862.33	
For Equipment Without Operator, Deduct	-14,823.19	
01 22 23 00-0835 DAY 4,000 PSI Pressure Washer With Full-Time Operator	919.19	
For Equipment Without Operator, Deduct	-684.15	
01 22 23 00-0836 WK 4,000 PSI Pressure Washer With Full-Time Operator	4,060.58	
For Equipment Without Operator, Deduct	-3,420.74	
01 22 23 00-0837 MO 4,000 PSI Pressure Washer With Full-Time Operator	16,612.14	
For Equipment Without Operator, Deduct	-14,823.19	
01 22 23 00-0838 DAY 5,000 PSI Pressure Washer With Full-Time Operator	910.05	
For Equipment Without Operator, Deduct	-684.15	
01 22 23 00-0839 WK 5,000 PSI Pressure Washer With Full-Time Operator	4,030.67	
For Equipment Without Operator, Deduct	-3,420.74	
01 22 23 00-0840 MO 5,000 PSI Pressure Washer With Full-Time Operator	16,540.03	
For Equipment Without Operator, Deduct	-14,823.19	
01 22 23 00-0841 Confined Space Entry Equipment <small>(01 22 23 00-0803)</small> Note: Includes delivery to job site, set-up, and pick-up when complete.		
01 22 23 00-0842 DAY Ventilation Equipment For Confined Space	41.11	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0843 WK Ventilation Equipment For Confined Space	123.32	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0844 MO Ventilation Equipment For Confined Space	367.99	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0845 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	61.77	
01 22 23 00-0846 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	185.32	
01 22 23 00-0847 MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	555.96	
01 22 23 00-0848 DAY Confined Space Air Monitor Personnel	791.07	
Note: Per person day.		
01 22 23 00-0849 Space Heaters <small>(01 22 23 00-0803)</small> Note: Includes delivery to job site, set-up, and pick-up when complete. Excludes operator.		
01 22 23 00-0850 DAY 150,000 BTU/Hour Space Heater	69.29	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0851	WK		150,000 BTU/Hour Space Heater	199.21	
01 22 23 00-0852	MO		150,000 BTU/Hour Space Heater	563.00	
01 22 23 00-0853	DAY		500,000 BTU/Hour Space Heater	147.25	
01 22 23 00-0854	WK		500,000 BTU/Hour Space Heater	363.78	
01 22 23 00-0855	MO		500,000 BTU/Hour Space Heater	919.85	
01 22 23 00-0856 Mowers <small>(01 22 23 00-0803)</small>					
Note: Includes delivery to job site and pick-up when complete. Excludes operator.					
01 22 23 00-0857	DAY		21" Walk Behind Lawn Mower	90.36	
01 22 23 00-0858	WK		21" Walk Behind Lawn Mower	259.78	
01 22 23 00-0859	MO		21" Walk Behind Lawn Mower	530.86	
01 22 23 00-0860	DAY		32" Walk Behind Lawn Mower	112.95	
01 22 23 00-0861	WK		32" Walk Behind Lawn Mower	271.08	
01 22 23 00-0862	MO		32" Walk Behind Lawn Mower	564.75	
01 22 23 00-0863	DAY		36" To 48" Walk Behind Deck Mower	203.31	
01 22 23 00-0864	WK		36" To 48" Walk Behind Deck Mower	564.75	
01 22 23 00-0865	MO		36" To 48" Walk Behind Deck Mower	1,637.78	
01 22 23 00-0866	DAY		61" To 72" Walk Behind Deck Mower	203.31	
01 22 23 00-0867	WK		61" To 72" Walk Behind Deck Mower	564.75	
01 22 23 00-0868	MO		61" To 72" Walk Behind Deck Mower	1,637.78	
01 22 23 00-0869 Material Handling Equipment <small>(01 22 23)</small>					
01 22 23 00-0870 Truck Mounted Hydraulic Cranes <small>(01 22 23 00-0869)</small>					
Note: Includes full-time operator, delivery, set-up, rigging, and removal time in rental period. Excludes lattice boom extension.					
01 22 23 00-0871	DAY		6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,295.10	
			<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0872	WK		6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,609.13	
			<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0873	MO		6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	22,543.34	
			<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0874	DAY		8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,411.48	
			<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0875	WK		8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,955.04	
			<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0876	MO		8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	23,577.82	
			<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0877	DAY		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,527.86	
			<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0878	WK		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,300.94	
			<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0879	MO		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	24,612.30	
			<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0880	DAY		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,683.03	
			<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0881	WK		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,766.46	
			<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0882	MO		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	26,002.38	
			<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0883	DAY		30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,825.27	
			<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0884	WK		30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	7,729.82	
			<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0885	MO		30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	28,889.87	
			<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0886	DAY		40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,161.48	
			<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0887	WK		40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	8,932.40	
			<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0888	MO		40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	32,500.21	
			<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0889	DAY		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,374.84	
			<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0890	WK		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	9,682.40	
			<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0891	MO		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	34,755.38	
			<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0892	DAY		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,542.95	
			<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0893	WK		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	10,290.16	
			<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0894	MO		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	36,576.06	
			<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0895	DAY		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,711.05	
			<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0896	WK		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	10,897.91	
			<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0897	MO		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	38,396.75	
			<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0898	DAY		85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,820.96	
			<i>For Equipment Without Operator, Deduct</i>	-855.45	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0899 WK 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	11,272.91	
<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0900 MO 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	39,534.67	
<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0901 DAY 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,969.67	
<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0902 WK 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	11,828.94	
<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0903 MO 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	41,189.84	
<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0904 DAY 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,448.12	
<i>For Equipment Without Operator, Deduct</i>	-855.45	
<i>For Half Day Usage, Deduct</i>	-1,037.07	
01 22 23 00-0905 WK 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	13,351.57	
<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0906 MO 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	45,757.72	
<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0907 DAY 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,777.86	
<i>For Equipment Without Operator, Deduct</i>	-855.45	
<i>For Half Day Usage, Deduct</i>	-1,168.96	
01 22 23 00-0908 WK 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	14,505.66	
<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0909 MO 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	49,219.99	
<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0910 DAY 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,372.68	
<i>For Equipment Without Operator, Deduct</i>	-855.45	
<i>For Half Day Usage, Deduct</i>	-1,406.89	
01 22 23 00-0911 WK 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	16,587.55	
<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0912 MO 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	55,465.67	
<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0913 DAY 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,786.47	
<i>For Equipment Without Operator, Deduct</i>	-855.45	
<i>For Half Day Usage, Deduct</i>	-1,572.41	
01 22 23 00-0914 WK 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	18,035.82	
<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0915 MO 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	59,810.48	
<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0916 Cable Controlled Lattice Boom, Mechanical Cranes <small>(01 22 23 00-0869)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0004 for lattice crane delivery.		
01 22 23 00-0917 DAY 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	2,407.17	
<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0918 WK 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	9,811.71	
<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0919 MO 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	35,138.13	
<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0920 DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	3,603.29	
<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0921 WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	11,803.08	
<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0922 MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	41,112.26	
<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0923 DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	3,797.25	
<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0924 WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	13,219.03	
<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0925 MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	45,358.80	
<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0926 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	4,185.18	
<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0927 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	14,634.97	
<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0928 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	49,600.16	
<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0929 DAY 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,369.45	
<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0930 WK 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	16,050.92	
<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0931 MO 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	53,851.88	
<i>For Equipment Without Operator, Deduct</i>	-18,534.73	
01 22 23 00-0932 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,553.72	
<i>For Equipment Without Operator, Deduct</i>	-855.45	
01 22 23 00-0933 WK 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	17,466.86	
<i>For Equipment Without Operator, Deduct</i>	-4,277.24	
01 22 23 00-0934 MO 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	58,103.59	
<i>For Equipment Without Operator, Deduct</i>	-18,534.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0935 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,161.47 -855.45	
01 22 23 00-0936 WK 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	19,645.73 -4,277.24	
01 22 23 00-0937 MO 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	64,631.16 -18,534.73	
01 22 23 00-0938 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,898.53 -855.45	
01 22 23 00-0939 WK 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,523.40 -4,277.24	
01 22 23 00-0940 MO 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	104,603.47 -18,534.73	
01 22 23 00-0941 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts (01 22 23 00-0869) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0942 DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,431.79 -791.07	
01 22 23 00-0943 WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,523.40 -3,955.33	
01 22 23 00-0944 MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	20,511.96 -17,139.76	
01 22 23 00-0945 DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,499.23 -791.07	
01 22 23 00-0946 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,675.15 -3,955.33	
01 22 23 00-0947 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	20,849.18 -17,139.76	
01 22 23 00-0948 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,482.37 -791.07	
01 22 23 00-0949 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,751.03 -3,955.33	
01 22 23 00-0950 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,355.01 -17,139.76	
01 22 23 00-0951 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,676.27 -791.07	
01 22 23 00-0952 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,256.86 -3,955.33	
01 22 23 00-0953 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,535.28 -17,139.76	
01 22 23 00-0954 Straight Mast, Rough Terrain Construction Forklifts (01 22 23 00-0869) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0955 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,207.54 -791.07 83.29	
01 22 23 00-0956 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	5,092.60 -3,955.33 227.45	
01 22 23 00-0957 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,742.68 -17,139.76 520.58	
01 22 23 00-0958 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,229.46 -791.07 87.68	
01 22 23 00-0959 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	5,152.46 -3,955.33 239.43	
01 22 23 00-0960 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,879.67 -17,139.76 547.98	
01 22 23 00-0961 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,347.48 -791.07 111.28	
01 22 23 00-0962 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	5,481.25 -3,955.33 305.18	
01 22 23 00-0963 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	20,638.42 -17,139.76 699.73	
01 22 23 00-0964 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,412.48 -791.07 124.28	
01 22 23 00-0965 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	5,453.09 -3,955.33 299.55	
01 22 23 00-0966 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	20,868.23 -17,139.76 745.69	
01 22 23 00-0967 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0869) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0968 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,145.15	
For Equipment Without Operator, Deduct	-791.07	
For Propane Instead Of Gas Or Diesel, Add	70.82	
01 22 23 00-0969 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	4,764.66	
For Equipment Without Operator, Deduct	-3,955.33	
For Propane Instead Of Gas Or Diesel, Add	161.87	
01 22 23 00-0970 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	19,078.78	
For Equipment Without Operator, Deduct	-17,139.76	
For Propane Instead Of Gas Or Diesel, Add	387.80	
01 22 23 00-0971 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,153.58	
For Equipment Without Operator, Deduct	-791.07	
For Propane Instead Of Gas Or Diesel, Add	72.50	
01 22 23 00-0972 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	4,789.95	
For Equipment Without Operator, Deduct	-3,955.33	
For Propane Instead Of Gas Or Diesel, Add	166.92	
01 22 23 00-0973 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	19,137.79	
For Equipment Without Operator, Deduct	-17,139.76	
For Propane Instead Of Gas Or Diesel, Add	399.61	
01 22 23 00-0974 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,330.62	
For Equipment Without Operator, Deduct	-791.07	
For Propane Instead Of Gas Or Diesel, Add	107.91	
01 22 23 00-0975 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,177.75	
For Equipment Without Operator, Deduct	-3,955.33	
For Propane Instead Of Gas Or Diesel, Add	244.48	
01 22 23 00-0976 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	20,090.44	
For Equipment Without Operator, Deduct	-17,139.76	
For Propane Instead Of Gas Or Diesel, Add	590.14	
01 22 23 00-0977 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,347.48	
For Equipment Without Operator, Deduct	-791.07	
For Propane Instead Of Gas Or Diesel, Add	111.28	
01 22 23 00-0978 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,321.07	
For Equipment Without Operator, Deduct	-3,955.33	
For Propane Instead Of Gas Or Diesel, Add	273.15	
01 22 23 00-0979 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	20,596.26	
For Equipment Without Operator, Deduct	-17,139.76	
For Propane Instead Of Gas Or Diesel, Add	691.30	
01 22 23 00-0980 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,499.23	
For Equipment Without Operator, Deduct	-791.07	
For Propane Instead Of Gas Or Diesel, Add	141.63	
01 22 23 00-0981 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,565.56	
For Equipment Without Operator, Deduct	-3,955.33	
For Propane Instead Of Gas Or Diesel, Add	322.05	
01 22 23 00-0982 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	21,017.79	
For Equipment Without Operator, Deduct	-17,139.76	
For Propane Instead Of Gas Or Diesel, Add	775.61	
01 22 23 00-0983 Chain Hoists (01 22 23 00-0869)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0984 DAY 1 Ton, 20' Lift, Manual Chain Hoist	12.52	
01 22 23 00-0985 WK 1 Ton, 20' Lift, Manual Chain Hoist	32.55	
01 22 23 00-0986 MO 1 Ton, 20' Lift, Manual Chain Hoist	96.40	
01 22 23 00-0987 DAY 3 Ton, 20' Lift, Manual Chain Hoist	35.06	
01 22 23 00-0988 WK 3 Ton, 20' Lift, Manual Chain Hoist	82.63	
01 22 23 00-0989 MO 3 Ton, 20' Lift, Manual Chain Hoist	231.62	
01 22 23 00-0990 DAY 5 Ton, 20' Lift, Manual Chain Hoist	45.07	
01 22 23 00-0991 WK 5 Ton, 20' Lift, Manual Chain Hoist	121.44	
01 22 23 00-0992 MO 5 Ton, 20' Lift, Manual Chain Hoist	338.04	
01 22 23 00-0993 DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	88.89	
01 22 23 00-0994 WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	231.62	
01 22 23 00-0995 MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	626.00	
01 22 23 00-0996 DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	90.14	
01 22 23 00-0997 WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	241.01	
01 22 23 00-0998 MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	657.30	
01 22 23 00-0999 DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	92.65	
01 22 23 00-1000 WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	259.79	
01 22 23 00-1001 MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	719.90	
01 22 23 00-1002 Roof Swing Hoist (01 22 23 00-0869)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1003 DAY Up To 400#, Manual Swing Roof Hoist	96.56	
01 22 23 00-1004 WK Up To 400#, Manual Swing Roof Hoist	337.98	
01 22 23 00-1005 MO Up To 400#, Manual Swing Roof Hoist	1,158.78	
01 22 23 00-1006 Truck Mounted Digger Derrick (01 22 23 00-0869)		
Note: Includes full-time operator, delivery, set-up, and removal time in rental period. Lifting capacity is reduced.		
01 22 23 00-1007 DAY Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	1,467.58	
Note: Includes lifting boom, grapple arm and auger drill.		
For Equipment Without Operator, Deduct	-855.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1008 WK Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator 6,113.62 Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> -4,277.24	6,113.62	
01 22 23 00-1009 MO Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator 23,431.74 Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> -18,534.73	23,431.74	
01 22 23 00-1010 DAY Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator 1,593.39 Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> -855.45	1,593.39	
01 22 23 00-1011 WK Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator 6,491.07 Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> -4,277.24	6,491.07	
01 22 23 00-1012 MO Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator 24,438.29 Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> -18,534.73	24,438.29	
01 22 23 00-1013 DAY Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator 2,370.87 Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> -855.45	2,370.87	
01 22 23 00-1014 WK Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator 8,823.51 Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> -4,277.24	8,823.51	
01 22 23 00-1015 MO Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator 30,658.12 Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> -18,534.73	30,658.12	
01 22 23 00-1016 Pumping Equipment <small>(01 22 23)</small>		
01 22 23 00-1017 Gas Powered Portable Centrifugal Pumps <small>(01 22 23 00-1016)</small> Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-1041 for larger diameter pumps.		
01 22 23 00-1018 DAY 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump 69.18	69.18	
01 22 23 00-1019 WK 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump 155.65	155.65	
01 22 23 00-1020 MO 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump 415.06	415.06	
01 22 23 00-1021 DAY 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump 83.01	83.01	
01 22 23 00-1022 WK 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump 186.78	186.78	
01 22 23 00-1023 MO 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump 498.07	498.07	
01 22 23 00-1024 Gas Powered Portable Diaphragm Pumps <small>(01 22 23 00-1016)</small> Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1025 DAY 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump 79.55	79.55	
01 22 23 00-1026 WK 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump 224.82	224.82	
01 22 23 00-1027 MO 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump 570.70	570.70	
01 22 23 00-1028 DAY 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump 96.85	96.85	
01 22 23 00-1029 WK 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump 259.41	259.41	
01 22 23 00-1030 MO 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump 735.00	735.00	
01 22 23 00-1031 Gas Powered Portable Trash Pumps <small>(01 22 23 00-1016)</small> Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1032 DAY 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump 100.31	100.31	
01 22 23 00-1033 WK 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump 207.53	207.53	
01 22 23 00-1034 MO 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump 622.58	622.58	
01 22 23 00-1035 DAY 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump 100.31	100.31	
01 22 23 00-1036 WK 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump 268.06	268.06	
01 22 23 00-1037 MO 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump 735.00	735.00	
01 22 23 00-1038 DAY 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump 159.10	159.10	
01 22 23 00-1039 WK 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump 449.64	449.64	
01 22 23 00-1040 MO 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump 1,305.70	1,305.70	
01 22 23 00-1041 Diesel Powered Portable Trash Pumps <small>(01 22 23 00-1016)</small> Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1042 DAY 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump 311.29	311.29	
01 22 23 00-1043 WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump 847.41	847.41	
01 22 23 00-1044 MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump 3,692.27	3,692.27	
01 22 23 00-1045 DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump 475.58	475.58	
01 22 23 00-1046 WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump 1,245.17	1,245.17	
01 22 23 00-1047 MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump 3,311.80	3,311.80	
01 22 23 00-1048 DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump 646.80	646.80	
01 22 23 00-1049 WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump 1,731.13	1,731.13	
01 22 23 00-1050 MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump 4,631.33	4,631.33	
01 22 23 00-1051 DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump 837.03	837.03	
01 22 23 00-1052 WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump 2,137.54	2,137.54	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-1053 MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump6,277.72

01 22 23 00-1054 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-1016)

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1055 DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump444.46
 01 22 23 00-1056 WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump1,011.70
 01 22 23 00-1057 MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump3,154.43
 01 22 23 00-1058 DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump544.76
 01 22 23 00-1059 WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump1,357.58
 01 22 23 00-1060 MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump3,692.27
 01 22 23 00-1061 DAY 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump657.17
 01 22 23 00-1062 WK 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump1,943.85
 01 22 23 00-1063 MO 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump5,421.67
 01 22 23 00-1064 DAY 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump989.22
 01 22 23 00-1065 WK 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump2,526.65
 01 22 23 00-1066 MO 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump7,419.13

01 22 23 00-1067 3 Phase Electric Submersible Pumps (01 22 23 00-1016)

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1068 DAY 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump172.94
 01 22 23 00-1069 WK 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump432.35
 01 22 23 00-1070 MO 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump1,297.05
 01 22 23 00-1071 DAY 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump228.28
 01 22 23 00-1072 WK 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump570.70
 01 22 23 00-1073 MO 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump1,712.11

01 22 23 00-1074 Suction Hose With Couplings (01 22 23 00-1016)

Note: Includes delivery, set-up, and removal.

01 22 23 00-1075 DAY Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings6.48
 01 22 23 00-1076 WK Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings16.20
 01 22 23 00-1077 MO Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings49.68
 01 22 23 00-1078 DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings17.28
 01 22 23 00-1079 WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings44.28
 01 22 23 00-1080 MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings135.00
 01 22 23 00-1081 DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings25.92
 01 22 23 00-1082 WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings65.88
 01 22 23 00-1083 MO 4" Inside Diameter, 20' Length, Suction Hose With Couplings199.80
 01 22 23 00-1084 DAY 6" Inside Diameter, 20' Length, Suction Hose With Couplings32.40
 01 22 23 00-1085 WK 6" Inside Diameter, 20' Length, Suction Hose With Couplings81.00
 01 22 23 00-1086 MO 6" Inside Diameter, 20' Length, Suction Hose With Couplings237.60
 01 22 23 00-1087 DAY 10" Inside Diameter, 20' Length, Suction Hose With Couplings75.60
 01 22 23 00-1088 WK 10" Inside Diameter, 20' Length, Suction Hose With Couplings194.40
 01 22 23 00-1089 MO 10" Inside Diameter, 20' Length, Suction Hose With Couplings572.40
 01 22 23 00-1090 DAY 12" Inside Diameter, 20' Length, Suction Hose With Couplings101.52
 01 22 23 00-1091 WK 12" Inside Diameter, 20' Length, Suction Hose With Couplings221.40
 01 22 23 00-1092 MO 12" Inside Diameter, 20' Length, Suction Hose With Couplings664.20

01 22 23 00-1093 Discharge Hose With Couplings (01 22 23 00-1016)

Note: Includes delivery, set-up, and removal.

01 22 23 00-1094 DAY 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings6.48
 01 22 23 00-1095 WK 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings16.20
 01 22 23 00-1096 MO 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings49.68
 01 22 23 00-1097 DAY 2" Inside Diameter, 50' Length, Discharge Hose With Couplings7.56
 01 22 23 00-1098 WK 2" Inside Diameter, 50' Length, Discharge Hose With Couplings18.36
 01 22 23 00-1099 MO 2" Inside Diameter, 50' Length, Discharge Hose With Couplings57.24
 01 22 23 00-1100 DAY 3" Inside Diameter, 50' Length, Discharge Hose With Couplings8.64
 01 22 23 00-1101 WK 3" Inside Diameter, 50' Length, Discharge Hose With Couplings21.60
 01 22 23 00-1102 MO 3" Inside Diameter, 50' Length, Discharge Hose With Couplings65.88
 01 22 23 00-1103 DAY 4" Inside Diameter, 50' Length, Discharge Hose With Couplings22.68
 01 22 23 00-1104 WK 4" Inside Diameter, 50' Length, Discharge Hose With Couplings58.32
 01 22 23 00-1105 MO 4" Inside Diameter, 50' Length, Discharge Hose With Couplings167.40
 01 22 23 00-1106 DAY 6" Inside Diameter, 50' Length, Discharge Hose With Couplings28.08
 01 22 23 00-1107 WK 6" Inside Diameter, 50' Length, Discharge Hose With Couplings76.68
 01 22 23 00-1108 MO 6" Inside Diameter, 50' Length, Discharge Hose With Couplings210.60
 01 22 23 00-1109 DAY 10" Inside Diameter, 10' Length, Discharge Hose With Couplings21.60
 01 22 23 00-1110 WK 10" Inside Diameter, 10' Length, Discharge Hose With Couplings54.00
 01 22 23 00-1111 MO 10" Inside Diameter, 10' Length, Discharge Hose With Couplings162.00
 01 22 23 00-1112 DAY 12" Inside Diameter, 10' Length, Discharge Hose With Couplings55.08
 01 22 23 00-1113 WK 12" Inside Diameter, 10' Length, Discharge Hose With Couplings140.40
 01 22 23 00-1114 MO 12" Inside Diameter, 10' Length, Discharge Hose With Couplings415.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1115 Hydraulic Submersible Pumps (01 22 23 00-1016) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1116 Hydraulic Submersible Pumps (01 22 23 00-1115) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1117 DAY 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	114.14	
01 22 23 00-1118 WK 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	306.10	
01 22 23 00-1119 MO 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	856.05	
01 22 23 00-1120 DAY 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	145.27	
01 22 23 00-1121 WK 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	373.55	
01 22 23 00-1122 MO 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	1,141.40	
01 22 23 00-1123 Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1115) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1124 DAY 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	263.73	
01 22 23 00-1125 WK 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	786.88	
01 22 23 00-1126 MO 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	2,075.28	
01 22 23 00-1127 HDPE Pipe With Couplings (01 22 23 00-1016) Note: Includes delivery, set-up, and removal.		
01 22 23 00-1128 DAY 4" x 20' HDPE Pipe With Couplings.....	15.71	
01 22 23 00-1129 WK 4" x 20' HDPE Pipe With Couplings.....	37.70	
01 22 23 00-1130 MO 4" x 20' HDPE Pipe With Couplings.....	116.25	
01 22 23 00-1131 DAY 6" x 20' HDPE Pipe With Couplings.....	25.14	
01 22 23 00-1132 WK 6" x 20' HDPE Pipe With Couplings.....	62.84	
01 22 23 00-1133 MO 6" x 20' HDPE Pipe With Couplings.....	191.66	
01 22 23 00-1134 DAY 8" x 20' HDPE Pipe With Couplings.....	40.85	
01 22 23 00-1135 WK 8" x 20' HDPE Pipe With Couplings.....	106.83	
01 22 23 00-1136 MO 8" x 20' HDPE Pipe With Couplings.....	317.34	
01 22 23 00-1137 DAY 10" x 20' HDPE Pipe With Couplings.....	50.27	
01 22 23 00-1138 WK 10" x 20' HDPE Pipe With Couplings.....	128.82	
01 22 23 00-1139 MO 10" x 20' HDPE Pipe With Couplings.....	392.75	
01 22 23 00-1140 DAY 12" x 10' HDPE Pipe With Couplings.....	37.70	
01 22 23 00-1141 WK 12" x 10' HDPE Pipe With Couplings.....	103.69	
01 22 23 00-1142 MO 12" x 10' HDPE Pipe With Couplings.....	314.20	
01 22 23 00-1143 DAY 4" Elbow For HDPE Pipe, Quick Connect.....	37.70	
01 22 23 00-1144 WK 4" Elbow For HDPE Pipe, Quick Connect.....	97.40	
01 22 23 00-1145 MO 4" Elbow For HDPE Pipe, Quick Connect.....	289.06	
01 22 23 00-1146 DAY 6" Elbow For HDPE Pipe, Quick Connect.....	43.99	
01 22 23 00-1147 WK 6" Elbow For HDPE Pipe, Quick Connect.....	113.11	
01 22 23 00-1148 MO 6" Elbow For HDPE Pipe, Quick Connect.....	345.62	
01 22 23 00-1149 DAY 8" Elbow For HDPE Pipe, Quick Connect.....	50.27	
01 22 23 00-1150 WK 8" Elbow For HDPE Pipe, Quick Connect.....	128.82	
01 22 23 00-1151 MO 8" Elbow For HDPE Pipe, Quick Connect.....	392.75	
01 22 23 00-1152 DAY 10" Elbow For HDPE Pipe, Quick Connect.....	62.84	
01 22 23 00-1153 WK 10" Elbow For HDPE Pipe, Quick Connect.....	160.24	
01 22 23 00-1154 MO 10" Elbow For HDPE Pipe, Quick Connect.....	487.01	
01 22 23 00-1155 DAY 12" Elbow For HDPE Pipe, Quick Connect.....	62.84	
01 22 23 00-1156 WK 12" Elbow For HDPE Pipe, Quick Connect.....	160.24	
01 22 23 00-1157 MO 12" Elbow For HDPE Pipe, Quick Connect.....	487.01	
01 22 23 00-1158 DAY 4" Tee For HDPE Pipe, Quick Connect.....	37.70	
01 22 23 00-1159 WK 4" Tee For HDPE Pipe, Quick Connect.....	97.40	
01 22 23 00-1160 MO 4" Tee For HDPE Pipe, Quick Connect.....	289.06	
01 22 23 00-1161 DAY 6" Tee For HDPE Pipe, Quick Connect.....	50.27	
01 22 23 00-1162 WK 6" Tee For HDPE Pipe, Quick Connect.....	128.82	
01 22 23 00-1163 MO 6" Tee For HDPE Pipe, Quick Connect.....	392.75	
01 22 23 00-1164 DAY 8" Tee For HDPE Pipe, Quick Connect.....	62.84	
01 22 23 00-1165 WK 8" Tee For HDPE Pipe, Quick Connect.....	160.24	
01 22 23 00-1166 MO 8" Tee For HDPE Pipe, Quick Connect.....	487.01	
01 22 23 00-1167 DAY 10" Tee For HDPE Pipe, Quick Connect.....	75.41	
01 22 23 00-1168 WK 10" Tee For HDPE Pipe, Quick Connect.....	191.66	
01 22 23 00-1169 MO 10" Tee For HDPE Pipe, Quick Connect.....	581.27	
01 22 23 00-1170 DAY 12" Tee For HDPE Pipe, Quick Connect.....	75.41	
01 22 23 00-1171 WK 12" Tee For HDPE Pipe, Quick Connect.....	191.66	
01 22 23 00-1172 MO 12" Tee For HDPE Pipe, Quick Connect.....	581.27	
01 22 23 00-1173 DAY 4" Cap For HDPE Pipe, Quick Connect.....	6.28	
01 22 23 00-1174 WK 4" Cap For HDPE Pipe, Quick Connect.....	18.85	
01 22 23 00-1175 MO 4" Cap For HDPE Pipe, Quick Connect.....	56.56	
01 22 23 00-1176 DAY 6" Cap For HDPE Pipe, Quick Connect.....	6.28	
01 22 23 00-1177 WK 6" Cap For HDPE Pipe, Quick Connect.....	18.85	
01 22 23 00-1178 MO 6" Cap For HDPE Pipe, Quick Connect.....	56.56	
01 22 23 00-1179 DAY 8" Cap For HDPE Pipe, Quick Connect.....	6.28	
01 22 23 00-1180 WK 8" Cap For HDPE Pipe, Quick Connect.....	18.85	
01 22 23 00-1181 MO 8" Cap For HDPE Pipe, Quick Connect.....	56.56	
01 22 23 00-1182 DAY 10" Cap For HDPE Pipe, Quick Connect.....	6.28	
01 22 23 00-1183 WK 10" Cap For HDPE Pipe, Quick Connect.....	18.85	
01 22 23 00-1184 MO 10" Cap For HDPE Pipe, Quick Connect.....	56.56	
01 22 23 00-1185 DAY 12" Cap For HDPE Pipe, Quick Connect.....	6.28	
01 22 23 00-1186 WK 12" Cap For HDPE Pipe, Quick Connect.....	18.85	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1187	MO		12" Cap For HDPE Pipe, Quick Connect	56.56	
01 22 23 00-1188	DAY		4" Wye For HDPE Pipe, Quick Connect	18.85	
01 22 23 00-1189	WK		4" Wye For HDPE Pipe, Quick Connect	47.13	
01 22 23 00-1190	MO		4" Wye For HDPE Pipe, Quick Connect	144.53	
01 22 23 00-1191	DAY		6" Wye For HDPE Pipe, Quick Connect	21.99	
01 22 23 00-1192	WK		6" Wye For HDPE Pipe, Quick Connect	56.56	
01 22 23 00-1193	MO		6" Wye For HDPE Pipe, Quick Connect	172.81	
01 22 23 00-1194	DAY		8" Wye For HDPE Pipe, Quick Connect	37.70	
01 22 23 00-1195	WK		8" Wye For HDPE Pipe, Quick Connect	97.40	
01 22 23 00-1196	MO		8" Wye For HDPE Pipe, Quick Connect	289.06	
01 22 23 00-1197	DAY		10" Wye For HDPE Pipe, Quick Connect	56.56	
01 22 23 00-1198	WK		10" Wye For HDPE Pipe, Quick Connect	144.53	
01 22 23 00-1199	MO		10" Wye For HDPE Pipe, Quick Connect	439.88	
01 22 23 00-1200	DAY		12" Wye For HDPE Pipe, Quick Connect	56.56	
01 22 23 00-1201	WK		12" Wye For HDPE Pipe, Quick Connect	144.53	
01 22 23 00-1202	MO		12" Wye For HDPE Pipe, Quick Connect	439.88	
01 22 23 00-1203			Temporary Building Services <small>(01 22 23)</small>		
01 22 23 00-1204			Boilers <small>(01 22 23 00-1203)</small>		
			Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1205			Electric Boilers <small>(01 22 23 00-1204)</small>		
01 22 23 00-1206	MO		40 MBH, 12 KW Electric Boiler Rental	2,596.85	
01 22 23 00-1207	MO		60 MBH, 20 KW Electric Boiler Rental	2,832.97	
01 22 23 00-1208	MO		95 MBH, 30 KW Electric Boiler Rental	2,951.03	
01 22 23 00-1209	MO		135 MBH, 40 KW Electric Boiler Rental	3,305.09	
01 22 23 00-1210	MO		165 MBH, 50 KW Electric Boiler Rental	4,603.51	
01 22 23 00-1211	MO		215 MBH, 60 KW Electric Boiler Rental	5,311.77	
01 22 23 00-1212	MO		365 MBH, 100 KW Electric Boiler Rental	6,964.37	
01 22 23 00-1213	MO		510 MBH, 150 KW Electric Boiler Rental	8,498.90	
01 22 23 00-1214			Oil/Gas Fired Boilers <small>(01 22 23 00-1204)</small>		
01 22 23 00-1215	MO		Up To 100 HP, Gas/Oil Dual Fuel Boiler Rental	2,288.00	
			For >3 Months Rental, Deduct	-343.20	
01 22 23 00-1216	MO		>100 HP To 250 HP, Gas/Oil Dual Fuel Boiler Rental	2,974.40	
			For >3 Months Rental, Deduct	-446.16	
01 22 23 00-1217	MO		>250 HP To 500 HP, Gas/Oil Dual Fuel Boiler Rental	4,804.80	
			For >3 Months Rental, Deduct	-720.72	
01 22 23 00-1218	MO		>500 HP To 800 HP, Gas/Oil Dual Fuel Boiler Rental	6,635.20	
			For >3 Months Rental, Deduct	-995.28	
01 22 23 00-1219			Oil Fired Boilers <small>(01 22 23 00-1204)</small>		
01 22 23 00-1220	MO		250 HP Oil Fired Boiler Rental	7,293.28	
01 22 23 00-1221	MO		350 HP Oil Fired Boiler Rental	9,724.38	
01 22 23 00-1222	MO		500 HP Oil Fired Boiler Rental	12,155.47	
01 22 23 00-1223	MO		600 HP Oil Fired Boiler Rental	13,371.02	
01 22 23 00-1224			Boilers Setup <small>(01 22 23 00-1204)</small>		
01 22 23 00-1225	EA		Setup Rental Boiler	7,480.04	
			Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		
01 22 23 00-1226			Chillers <small>(01 22 23 00-1203)</small>		
			Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1227			Air Cooled Chillers <small>(01 22 23 00-1226)</small>		
01 22 23 00-1228	MO		25 Ton Air Cooled Chiller Rental	2,302.74	
			For >3 To 6 Month Rental, Deduct	-345.41	
			For >6 Month Rental, Deduct	-575.69	
01 22 23 00-1229	MO		40 Ton Air Cooled Chiller Rental	3,684.39	
			For >3 To 6 Month Rental, Deduct	-552.66	
			For >6 Month Rental, Deduct	-921.10	
01 22 23 00-1230	MO		60 Ton Air Cooled Chiller Rental	4,506.42	
			For >3 To 6 Month Rental, Deduct	-675.96	
			For >6 Month Rental, Deduct	-1,126.61	
01 22 23 00-1231	MO		80 Ton Air Cooled Chiller Rental	5,328.46	
			For >3 To 6 Month Rental, Deduct	-799.27	
			For >6 Month Rental, Deduct	-1,332.12	
01 22 23 00-1232	MO		100 Ton Air Cooled Chiller Rental	6,150.49	
			For >3 To 6 Month Rental, Deduct	-922.57	
			For >6 Month Rental, Deduct	-1,537.62	
01 22 23 00-1233	MO		125 Ton Air Cooled Chiller Rental	7,125.46	
			For >3 To 6 Month Rental, Deduct	-1,068.82	
			For >6 Month Rental, Deduct	-1,781.37	
01 22 23 00-1234	MO		155 Ton Air Cooled Chiller Rental	8,620.06	
			For >3 To 6 Month Rental, Deduct	-1,293.01	
			For >6 Month Rental, Deduct	-2,155.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1235 MO 170 Ton Air Cooled Chiller Rental	9,217.91	
<i>For >3 To 6 Month Rental, Deduct</i>	-1,382.69	
<i>For >6 Month Rental, Deduct</i>	-2,304.48	
01 22 23 00-1236 MO 200 Ton Air Cooled Chiller Rental	10,589.13	
<i>For >3 To 6 Month Rental, Deduct</i>	-1,588.37	
<i>For >6 Month Rental, Deduct</i>	-2,647.28	
01 22 23 00-1237 MO 250 Ton Air Cooled Chiller Rental	12,599.90	
<i>For >3 To 6 Month Rental, Deduct</i>	-1,889.99	
<i>For >6 Month Rental, Deduct</i>	-3,149.98	
01 22 23 00-1238 MO 300 Ton Air Cooled Chiller Rental	14,702.78	
Note: Includes trailer.		
<i>For >3 To 6 Month Rental, Deduct</i>	-2,205.42	
<i>For >6 Month Rental, Deduct</i>	-3,675.70	
01 22 23 00-1239 MO 400 Ton Air Cooled Chiller Rental	19,395.16	
Note: Includes trailer, pump and 200' of 6" hose.		
<i>For >3 To 6 Month Rental, Deduct</i>	-2,909.27	
<i>For >6 Month Rental, Deduct</i>	-4,848.79	
01 22 23 00-1240 MO 500 Ton Air Cooled Chiller Rental	24,007.59	
Note: Includes trailer, pump and 200' of 6" hose.		
<i>For >3 To 6 Month Rental, Deduct</i>	-3,601.14	
<i>For >6 Month Rental, Deduct</i>	-6,001.90	
01 22 23 00-1241 EA Setup Air Cooled Chiller Rental Unit.....	5,199.54	
Note: Includes delivery, setup, installation, refrigerant charge, startup, commissioning, decommissioning, recovery of refrigerant and pickup. Excludes piping and electrical hookup. Excludes crane if off-loaded.		
01 22 23 00-1242 Chiller Rental Accessories (01 22 23 00-1226)		
01 22 23 00-1243 MO 4" x 25' Flexible Water Hose For Chiller Rental	41.03	
01 22 23 00-1244 MO 6" x 25' Flexible Water Hose For Chiller Rental	51.29	
01 22 23 00-1245 Cooling Tower (01 22 23 00-1203)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1246 MO 100 Ton Cooling Tower Rental	2,113.15	
<i>For >3 To 6 Months Rental, Deduct</i>	-316.97	
<i>For >6 Months Rental, Deduct</i>	-528.29	
01 22 23 00-1247 MO 200 Ton Cooling Tower Rental	3,846.75	
<i>For >3 To 6 Months Rental, Deduct</i>	-577.01	
<i>For >6 Months Rental, Deduct</i>	-961.69	
01 22 23 00-1248 MO 250 Ton Cooling Tower Rental	4,356.26	
<i>For >3 To 6 Months Rental, Deduct</i>	-653.44	
<i>For >6 Months Rental, Deduct</i>	-1,089.07	
01 22 23 00-1249 MO 300 Ton Cooling Tower Rental	4,923.84	
<i>For >3 To 6 Months Rental, Deduct</i>	-738.58	
<i>For >6 Months Rental, Deduct</i>	-1,230.96	
01 22 23 00-1250 MO 400 Ton Cooling Tower Rental	6,154.80	
<i>For >3 To 6 Months Rental, Deduct</i>	-923.22	
<i>For >6 Months Rental, Deduct</i>	-1,538.70	
01 22 23 00-1251 MO 500 Ton Cooling Tower Rental	7,196.02	
<i>For >3 To 6 Months Rental, Deduct</i>	-1,079.40	
<i>For >6 Months Rental, Deduct</i>	-1,799.01	
01 22 23 00-1252 MO Setup Rental Cooling Tower.....	5,199.54	
Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		
01 22 23 00-1253 Emergency Cooler/Freezer (01 22 23 00-1203)		
Note: Excludes utility connection, delivery, set-up, and removal. Cooler 115 Volt or 230 Volt, freezer 208/230 Volt, combo 115 Volt or 230 Volt.		
01 22 23 00-1254 DAY 8 x 6 x 7 Emergency Cooler Rental	79.51	
01 22 23 00-1255 WK 8 x 6 x 7 Emergency Cooler Rental	424.04	
01 22 23 00-1256 DAY 10 x 7 x 7 Emergency Cooler Rental	159.02	
01 22 23 00-1257 WK 10 x 7 x 7 Emergency Cooler Rental	636.06	
01 22 23 00-1258 MO 10 x 7 x 7 Emergency Cooler Rental	1,590.15	
01 22 23 00-1259 DAY 10 x 7 x 7 Emergency Freezer Rental	185.52	
01 22 23 00-1260 WK 10 x 7 x 7 Emergency Freezer Rental	742.07	
01 22 23 00-1261 MO 10 x 7 x 7 Emergency Freezer Rental	1,908.18	
01 22 23 00-1262 DAY 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	212.02	
01 22 23 00-1263 WK 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	848.08	
01 22 23 00-1264 MO 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	2,120.20	
01 22 23 00-1265 Portable Spot Cooling Units (01 22 23 00-1203)		
Note: Includes delivery to job site, up to 20' duct connection to existing system/exhaust and pick-up when complete. Excludes operator.		
01 22 23 00-1266 DAY 1 Ton Portable Spot Cooling Unit	168.68	
01 22 23 00-1267 WK 1 Ton Portable Spot Cooling Unit	365.48	
01 22 23 00-1268 MO 1 Ton Portable Spot Cooling Unit	863.96	
01 22 23 00-1269 DAY 1.5 Ton Portable Spot Cooling Unit	220.59	
01 22 23 00-1270 WK 1.5 Ton Portable Spot Cooling Unit	453.06	
01 22 23 00-1271 MO 1.5 Ton Portable Spot Cooling Unit	1,062.92	
01 22 23 00-1272 DAY 2 Ton Portable Spot Cooling Unit	297.36	
01 22 23 00-1273 WK 2 Ton Portable Spot Cooling Unit	621.75	
01 22 23 00-1274 MO 2 Ton Portable Spot Cooling Unit	1,151.58	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1275	DAY		3 Ton Portable Spot Cooling Unit	311.41	
01 22 23 00-1276	WK		3 Ton Portable Spot Cooling Unit	659.59	
01 22 23 00-1277	MO		3 Ton Portable Spot Cooling Unit	1,457.59	
01 22 23 00-1278	DAY		5 Ton Portable Spot Cooling Unit	486.58	
01 22 23 00-1279	WK		5 Ton Portable Spot Cooling Unit	983.98	
01 22 23 00-1280	MO		5 Ton Portable Spot Cooling Unit	2,044.74	
01 22 23 00-1281	DAY		10 To 12 Ton Portable Spot Cooling Unit	635.80	
01 22 23 00-1282	WK		10 To 12 Ton Portable Spot Cooling Unit	1,432.72	
01 22 23 00-1283	MO		10 To 12 Ton Portable Spot Cooling Unit	3,458.00	
01 22 23 00-1284	DAY		20 Ton Portable Spot Cooling Unit	729.88	
01 22 23 00-1285	WK		20 Ton Portable Spot Cooling Unit	1,676.02	
01 22 23 00-1286	MO		20 Ton Portable Spot Cooling Unit	4,671.22	
01 22 23 00-1287	DAY		25 Ton Portable Spot Cooling Unit	1,038.05	
01 22 23 00-1288	WK		25 Ton Portable Spot Cooling Unit	2,103.13	
01 22 23 00-1289	MO		25 Ton Portable Spot Cooling Unit	4,892.88	
01 22 23 00-1290			Fuel Oil Tank (01 22 23 00-1203) Note: Includes delivery to job site, connection to existing system and pick-up when complete. Excludes Off-road fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-1291	MO		100 Gallon Portable Double Wall Fuel Oil Tank Rental	374.75	
01 22 23 00-1292	MO		275 Gallon Portable Double Wall Fuel Oil Tank Rental	582.94	
01 22 23 00-1293	MO		500 Gallon Portable Double Wall Fuel Oil Tank Rental	1,457.35	
01 22 23 00-1294	MO		1,000 Gallon Portable Double Wall Fuel Oil Tank Rental	2,428.91	
01 22 23 00-1295	MO		2,300 Gallon Portable Double Wall Fuel Oil Tank Rental	3,206.16	
01 22 23 00-1296	MO		5,000 Gallon Portable Double Wall Fuel Oil Tank Rental	5,727.61	
01 22 23 00-1297			Truck And Trailer Equipment (01 22 23)		
01 22 23 00-1298			Trucks (01 22 23 00-1297) Note: Includes driver, delivery, and removal.		
01 22 23 00-1299			Flat Bed Trucks (01 22 23 00-1298) Note: Includes hydraulic tilt bed.		
01 22 23 00-1300	DAY		1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	941.47	
			<i>For Equipment Without Operator, Deduct</i>	-683.84	
01 22 23 00-1301	WK		1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,094.61	
			<i>For Equipment Without Operator, Deduct</i>	-3,419.20	
01 22 23 00-1302	MO		1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	16,522.49	
			<i>For Equipment Without Operator, Deduct</i>	-14,816.55	
01 22 23 00-1303	DAY		3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,052.88	
			<i>For Equipment Without Operator, Deduct</i>	-683.84	
01 22 23 00-1304	WK		3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,380.09	
			<i>For Equipment Without Operator, Deduct</i>	-3,419.20	
01 22 23 00-1305	MO		3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	17,253.60	
			<i>For Equipment Without Operator, Deduct</i>	-14,816.55	
01 22 23 00-1306	DAY		6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,132.81	
			<i>For Equipment Without Operator, Deduct</i>	-683.84	
01 22 23 00-1307	WK		6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,685.63	
			<i>For Equipment Without Operator, Deduct</i>	-3,419.20	
01 22 23 00-1308	MO		6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	18,416.42	
			<i>For Equipment Without Operator, Deduct</i>	-14,816.55	
01 22 23 00-1309			Boom Trucks (01 22 23 00-1298)		
01 22 23 00-1310	DAY		3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	1,163.59	
			<i>For Equipment Without Operator, Deduct</i>	-683.84	
			<i>For High Rail Equipment, Add</i>	167.91	
01 22 23 00-1311	WK		3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	4,668.36	
			<i>For Equipment Without Operator, Deduct</i>	-3,419.20	
			<i>For High Rail Equipment, Add</i>	437.21	
01 22 23 00-1312	MO		3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	17,984.71	
			<i>For Equipment Without Operator, Deduct</i>	-14,816.55	
			<i>For High Rail Equipment, Add</i>	1,108.86	
01 22 23 00-1313			Light Off-Road Utility Passenger Vehicles (01 22 23 00-1298)		
01 22 23 00-1314	DAY		4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	289.44	
01 22 23 00-1315	WK		4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	669.33	
01 22 23 00-1316	MO		4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	1,447.20	
01 22 23 00-1317	DAY		4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	298.48	
01 22 23 00-1318	WK		4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	696.46	
01 22 23 00-1319	MO		4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	1,537.65	
01 22 23 00-1320			Light Duty Trucks (01 22 23 00-1298)		
01 22 23 00-1321	DAY		1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	914.27	
			<i>For Equipment Without Operator, Deduct</i>	-676.99	
01 22 23 00-1322	WK		1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	4,163.52	
			<i>For Equipment Without Operator, Deduct</i>	-3,384.94	
01 22 23 00-1323	MO		1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	16,299.38	
			<i>For Equipment Without Operator, Deduct</i>	-14,668.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1324 DAY 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	958.76 -676.99	
01 22 23 00-1325 WK 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,296.98 -3,384.94	
01 22 23 00-1326 MO 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	16,595.98 -14,668.08	
01 22 23 00-1327 Rear Dump Trucks (01 22 23 00-1298)		
01 22 23 00-1328 DAY 2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,036.49 -683.84	
01 22 23 00-1329 WK 2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,350.67 -3,419.20	
01 22 23 00-1330 MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,668.45 -14,816.55	
01 22 23 00-1331 DAY 4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,153.41 -683.84	
01 22 23 00-1332 WK 4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,712.90 -3,419.20	
01 22 23 00-1333 MO 4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	18,170.60 -14,816.55	
01 22 23 00-1334 DAY 6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,220.49 -683.84	
01 22 23 00-1335 WK 6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,856.65 -3,419.20	
01 22 23 00-1336 MO 6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	18,266.43 -14,816.55	
01 22 23 00-1337 DAY 13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,015.88 -683.84	
01 22 23 00-1338 WK 13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,495.34 -3,419.20	
01 22 23 00-1339 MO 13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	22,866.27 -14,816.55	
01 22 23 00-1340 DAY 18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,149.08 -683.84	
01 22 23 00-1341 WK 18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,802.96 -3,419.20	
01 22 23 00-1342 MO 18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	23,671.24 -14,816.55	
01 22 23 00-1343 Vacuum Trucks (01 22 23 00-1298)		
01 22 23 00-1344 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,006.29 -683.84	
01 22 23 00-1345 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	7,401.89 -3,419.20	
01 22 23 00-1346 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	26,569.14 -14,816.55	
01 22 23 00-1347 Water Trucks (01 22 23 00-1298)		
Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1093 for additional discharge hose, 01 22 23 00-1370 for water trailer.		
01 22 23 00-1348 DAY 2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	1,423.10 -683.84 13.97	
01 22 23 00-1349 WK 2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	5,365.92 -3,419.20 13.97	
01 22 23 00-1350 MO 2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	19,416.39 -14,816.55 13.97	
01 22 23 00-1351 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	1,784.52 -683.84 13.97	
01 22 23 00-1352 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	6,450.17 -3,419.20 13.97	
01 22 23 00-1353 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	22,209.15 -14,816.55 13.97	
01 22 23 00-1354 Asphalt Distribution Trucks (01 22 23 00-1298)		
01 22 23 00-1355 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,877.30 -683.84	
01 22 23 00-1356 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,984.26 -3,419.20	
01 22 23 00-1357 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	25,355.75 -14,816.55	

01	01	General Requirements
	01 20	Price and Payment Procedures
	01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1358	Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board <small>(01 22 23 00-1298)</small>	
01 22 23 00-1359 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	1,388.53	
<i>For Equipment Without Operator, Deduct</i>	-676.99	
01 22 23 00-1360 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	5,484.88	
<i>For Equipment Without Operator, Deduct</i>	-3,384.94	
01 22 23 00-1361 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	19,767.71	
<i>For Equipment Without Operator, Deduct</i>	-14,668.08	
01 22 23 00-1362	Combination Jet/Vacuum Trucks <small>(01 22 23 00-1298)</small>	
01 22 23 00-1363 DAY 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,059.97	
<i>For Equipment Without Operator, Deduct</i>	-683.84	
01 22 23 00-1364 WK 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	14,542.37	
<i>For Equipment Without Operator, Deduct</i>	-3,419.20	
01 22 23 00-1365 DAY 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,474.60	
<i>For Equipment Without Operator, Deduct</i>	-683.84	
01 22 23 00-1366 WK 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	16,954.39	
<i>For Equipment Without Operator, Deduct</i>	-3,419.20	
01 22 23 00-1367 DAY 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,873.28	
<i>For Equipment Without Operator, Deduct</i>	-683.84	
01 22 23 00-1368 WK 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	19,366.40	
<i>For Equipment Without Operator, Deduct</i>	-3,419.20	
01 22 23 00-1369	Trailers <small>(01 22 23 00-1297)</small>	
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1370	Water Trailers With Pump <small>(01 22 23 00-1369)</small>	
01 22 23 00-1371 DAY 500 To 600 Gallon Water Trailer With Pump	188.92	
01 22 23 00-1372 WK 500 To 600 Gallon Water Trailer With Pump	484.63	
01 22 23 00-1373 MO 500 To 600 Gallon Water Trailer With Pump	1,297.81	
01 22 23 00-1374	Trailer Mounted Equipment <small>(01 22 23 00-1297)</small>	
01 22 23 00-1375	Trailer Mounted Under-Bridge Aerial Access Platform <small>(01 22 23 00-1374)</small>	
Note: Includes full-time operator. Excludes truck.		
01 22 23 00-1376 DAY Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	2,749.73	
<i>For Equipment Without Operator, Deduct</i>	-683.84	
01 22 23 00-1377 WK Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	9,616.86	
<i>For Equipment Without Operator, Deduct</i>	-3,419.20	
01 22 23 00-1378 MO Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	32,032.28	
<i>For Equipment Without Operator, Deduct</i>	-14,816.55	
01 22 23 00-1379 DAY Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	2,956.32	
<i>For Equipment Without Operator, Deduct</i>	-683.84	
01 22 23 00-1380 WK Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	10,236.63	
<i>For Equipment Without Operator, Deduct</i>	-3,419.20	
01 22 23 00-1381 MO Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	33,753.85	
<i>For Equipment Without Operator, Deduct</i>	-14,816.55	
01 22 23 00-1382	Trailer Mounted Bridge Stripping Buggy <small>(01 22 23 00-1374)</small>	
01 22 23 00-1383 DAY Trailer Mounted Bridge Overhang Stripping Buggy	234.42	
01 22 23 00-1384 WK Trailer Mounted Bridge Overhang Stripping Buggy	703.30	
01 22 23 00-1385 MO Trailer Mounted Bridge Overhang Stripping Buggy	1,953.53	
01 22 23 00-1386	Portable Trailer Mounted, CCTV Camera Systems <small>(01 22 23 00-1374)</small>	
Note: Includes trailer. Excludes truck.		
01 22 23 00-1387 MO Portable Trailer Mounted, Single Camera, CCTV Camera System	2,713.50	
01 22 23 00-1388 MO Portable Trailer Mounted, Multi-Camera/Loud Speaker, CCTV Camera System	4,703.40	

01 30 Administrative Requirements (01)

01 31 Project Management and Coordination (01 30)

01 31 33 Project Minimum Labor Costs (01 31)

01 31 33 00-0001 Minimum Charge (01 31 33)

Note: Use item exclusively for projects when the sum of line items is less than the minimum charge per occurrence. Item should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Item quantity is 1, unless approved by owner.

01 31 33 00-0002 EA Carpenter Minimum Charge	1,084.81
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Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.



General Requirements	01	10
Administrative Requirements	01 30	
Project Management and Coordination	01 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 31 33 00-0003 EA Carpet, Linoleum Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,035.95	
01 31 33 00-0004 EA Cement Mason Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	739.88	
01 31 33 00-0005 EA Drywall Finisher Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	982.64	
01 31 33 00-0006 EA Drywall Installer Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,048.10	
01 31 33 00-0007 EA Electrician Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,327.08	
01 31 33 00-0008 EA Glazier Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	962.76	
01 31 33 00-0009 EA Insulator Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,112.95	
01 31 33 00-0010 EA Laborer Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	709.15	
01 31 33 00-0011 EA Landscape Maintenance Worker Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	834.15	
01 31 33 00-0012 EA Ornamental Metal Worker Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,007.98	
01 31 33 00-0013 EA Painter, Ordinary Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	815.21	
01 31 33 00-0014 EA Plasterer Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	945.94	
01 31 33 00-0015 EA Plumber Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,366.15	
01 31 33 00-0016 EA Roofer, Tile/Slate Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,019.70	
01 31 33 00-0017 EA Roofer, Composite Built-Up Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,048.89	
01 31 33 00-0018 EA Sheet Metal Worker Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,258.51	
01 31 33 00-0019 EA Sprinkler Installer Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,303.89	
01 31 33 00-0020 EA Tile Layer (Floor) Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	869.19	

01 35 Special Procedures (01 30)

01 35 29 Health, Safety, and Emergency Response Procedures (01 35)

See CSI section 02 90 00 00-0000 for disaster recovery task.

01 35 29 00-0001 Emergency Response (01 35 29)

See CSI section 01 22 20 00-0001 for labor services to load and unload shipping container, 01 22 20 00-0051 for security guards, 01 22 23 00-0000 for portable equipment usage (air compressors, generators, lighting, etc.), 01 52 13 00-0029 for container usage.

01 35 29 00-0002 MI Trucking Delivery Of 20' Shipping Container	2.52
01 35 29 00-0003 MI Trucking Delivery Of 40' Shipping Container	5.05

01 35 33 Infection Control Procedures (01 35)

See CSI section 02 87 19 00-0000 for Bio-Hazard And Infectious Disease Control Remediation.

01 40 Quality Requirements (01)

01 45 Quality Control (01 40)

01 45 23 Testing and Inspecting Services (01 45)

Note: For application to existing materials/site conditions only. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.

01 45 23 00-0001 Soils/Aggregate Testing (01 45 23)

01 45 23 00-0002 Field Soils Tests (01 45 23 00-0001)

01 45 23 00-0003 EA Plasticity Index Soils Test, ASTM D-4318, Field Soils Test	330.57
01 45 23 00-0004 EA 4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	469.19
01 45 23 00-0005 EA 6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	533.18

01 General Requirements**01 40 Quality Requirements****01 45 Quality Control**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0006 EA Resistance (R) Value Soils Test, CA 301, Field Soils Test.....	426.54	
01 45 23 00-0007 EA Soils Classification Test, ASTM D-2487, Field Soils Test.....	639.81	
01 45 23 00-0008 SET Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test.....	1,279.18	
01 45 23 00-0009 EA Moisture Content, Field Soils Test.....	47.97	
01 45 23 00-0010 EA UBC Or Swell Test, Field Soils Test.....	168.05	
01 45 23 00-0011 EA Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test.....	319.80	
01 45 23 00-0012 EA Proctor Compaction 6" Standard Mold, Field Soils Test.....	399.74	
01 45 23 00-0013 EA Density And Classification Test, Field Soils Test.....	127.92	
01 45 23 00-0014 EA Percolation Test, Field Soils Test.....	319.80	
01 45 23 00-0015 EA Infiltration Test, Field Soils Test.....	639.59	
01 45 23 00-0016 Aggregate Testing (01 45 23 00-0001)		
01 45 23 00-0017 EA Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	106.64	
01 45 23 00-0018 EA Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	191.94	
01 45 23 00-0019 EA Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	266.59	
01 45 23 00-0020 EA Sieve Analysis, Pit Run, ASTM C136.....	207.87	
Note: Includes wash.		
01 45 23 00-0021 EA Specific Special Gravity, Course, ASTM C127.....	169.42	
Note: Includes absorption test.		
01 45 23 00-0022 EA Special Gravity, Fine, ASTM C127.....	151.90	
Note: Includes absorption test.		
01 45 23 00-0023 EA Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	225.90	
01 45 23 00-0024 EA Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	213.27	
01 45 23 00-0025 EA Aggregate Cleanness Value, ASTM C-128, CA 227.....	213.27	
01 45 23 00-0026 EA Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217.....	159.95	
01 45 23 00-0027 EA Fine Aggregate Durability Index, CA 229.....	170.62	
01 45 23 00-0028 EA Sodium And Magnesium Soundness, ASTM C88.....	447.71	
01 45 23 00-0029 EA Los Angeles Rattler, ASTM C-131, CA 211.....	341.23	
01 45 23 00-0030 EA Los Angeles Rattler, ASTM C-535.....	341.23	
01 45 23 00-0031 EA Unit Weight Of Aggregates, ASTM C29.....	95.97	
01 45 23 00-0032 EA Organic Impurities In Sand, ASTM C40.....	95.94	
01 45 23 00-0033 EA Crushed Particle, ASTM California Test Method.....	95.94	
01 45 23 00-0034 EA Clay Lump And Friable Particles, ASTM C142.....	191.88	
01 45 23 00-0035 Permeability Tests (01 45 23 00-0001)		
01 45 23 00-0036 In-Place Tests (01 45 23 00-0035)		
01 45 23 00-0037 EA Double Ring Infiltrometer Test, ASTM D3385.....	1,694.25	
01 45 23 00-0038 EA Unconfined Compressive Strength (Pocket Penetrometer) Test.....	79.95	
01 45 23 00-0039 Lab Tests (01 45 23 00-0035)		
01 45 23 00-0040 EA Falling Head Rigid Wall Consolidometer Technique CAE.....	790.65	
01 45 23 00-0041 EA Falling Head Permeability Test EPA-9100.....	790.65	
01 45 23 00-0042 EA Constant Head Permeability Test For Granular Soils, ASTM D2432.....	451.80	
01 45 23 00-0043 Concrete/Cement/Asphalt Testing (01 45 23)		
01 45 23 00-0044 Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0045 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab.....	23.38	
01 45 23 00-0046 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633.....	67.77	
01 45 23 00-0047 EA Concrete Cores Compression Test, ASTM C-42.....	138.63	
01 45 23 00-0048 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78.....	202.61	
01 45 23 00-0049 EA Unit Weight Of Concrete Cylinder, ASTM C-567.....	74.64	
01 45 23 00-0050 EA Concrete Mix Design Review.....	405.21	
01 45 23 00-0051 EA Trial Concrete Batch Prepared In Laboratory.....	959.72	
01 45 23 00-0052 EA Concrete Shrinkage, ASTM C-157 Modified.....	746.44	
01 45 23 00-0053 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496.....	115.17	
01 45 23 00-0054 EA Concrete Slump Test, ASTM C143.....	53.32	
01 45 23 00-0055 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231.....	53.32	
01 45 23 00-0056 Cement Testing (01 45 23 00-0043)		
01 45 23 00-0057 EA Cement Grab Sample (CCR Title 24).....	53.32	
Note: Includes sealing and storing 1 year.		
01 45 23 00-0058 EA 2" x 2" x 2" Cube Compression Test, All Type Materials.....	85.31	
01 45 23 00-0059 Asphaltic Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0060 EA Hveem Asphaltic Concrete Stability Test, CA 366.....	106.64	
01 45 23 00-0061 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927.....	277.25	
01 45 23 00-0062 EA Stability Tests, Premixed, ASTM D1559.....	106.64	
01 45 23 00-0063 EA Stability Tests, Lab. Mixed, ASTM D1559.....	277.25	
01 45 23 00-0064 EA Swell Test, CA 305.....	127.96	
Note: Includes compaction.		
01 45 23 00-0065 EA % Asphalt Extraction Test, ASTM D-2172 B.....	319.90	
01 45 23 00-0066 EA Maximum Theoretical Unit Weight, ASTM C2041.....	203.31	
01 45 23 00-0067 EA Unit Weight Sample Requiring Compaction, California Test Method 308.....	42.65	



		General Requirements	01
		Quality Requirements	01 40
		Quality Control	01 45

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0068 EA Asphalt Unit Weight On Core Test, CA 308C	42.65	
01 45 23 00-0069 HR Nuclear Field Density Testing, 4 Hour Minimum.....	219.67	
01 45 23 00-0070 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	143.91	
01 45 23 00-0071 EA Penetration, ASTM D5.....	154.04	
01 45 23 00-0072 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0073 Masonry Testing (01 45 23 00-0072)		
01 45 23 00-0074 EA 2" x 4" Cylinder Mortar Compression Test.....	70.38	
01 45 23 00-0075 EA 4" x 4" x 8" Grout Prisms Compression Test	70.38	
01 45 23 00-0076 EA Masonry Cores Compression Test	138.63	
01 45 23 00-0077 EA Composite Grouted Prism Compression Test.....	266.59	
01 45 23 00-0078 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0072)		
01 45 23 00-0079 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140.....	170.62	
01 45 23 00-0080 EA Absorption Test, Moisture Content And Unit Weight.....	117.30	
01 45 23 00-0081 EA First Unit, Moisture Condition By Relative Humidity, ASTM C427	447.71	
01 45 23 00-0082 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit	223.86	
01 45 23 00-0083 Metals Testing (01 45 23)		
01 45 23 00-0084 Tank Line Tightness Testing (01 45 23 00-0083)		
01 45 23 00-0085 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	559.29	
01 45 23 00-0086 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....	621.03	
01 45 23 00-0087 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing.....	682.56	
01 45 23 00-0088 Other Testing (01 45 23)		
01 45 23 00-0089 Special Testing (01 45 23 00-0088)		
01 45 23 00-0090 EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....	165.31	
01 45 23 00-0091 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	991.86	
01 45 23 00-0092 EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria).....	49.84	
01 45 23 00-0093 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample.....	206.72	
01 45 23 00-0094 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample.....	206.72	
01 45 23 00-0095 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample.....	206.72	
01 45 23 00-0096 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample	1,136.96	
01 45 23 00-0097 EA Testing And Certification Of Backflow Valves	660.85	
01 45 23 00-0098 Nondestructive Field Testing Services (01 45 23 00-0088)		
01 45 23 00-0099 Infrared Thermography (01 45 23 00-0098)		
Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0100 Roof Investigation And Moisture Survey Using Infrared Thermography (01 45 23 00-0099)		
Note: For on the roof surveys.		
01 45 23 00-0101 EA Roof Investigation And Moisture Survey Using Infrared Thermography, Mobilization Charge.....	3,720.96	
01 45 23 00-0102 CSF Up To 10,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	6.20	
<i>For CADD Drawings, Add</i>		
	1.24	
01 45 23 00-0103 CSF >10,000 To 50,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	4.13	
<i>For CADD Drawings, Add</i>		
	0.83	
01 45 23 00-0104 CSF >50,000 To 250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	3.10	
<i>For CADD Drawings, Add</i>		
	0.62	
<i>For Elevated Infrared Thermography Roof Investigation, Add</i>		
	0.78	
<i>For Aerial Infrared Thermography Roof Investigation, Add</i>		
	0.78	
01 45 23 00-0105 CSF >250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	2.07	
<i>For CADD Drawings, Add</i>		
	0.41	
<i>For Elevated Infrared Thermography Roof Investigation, Add</i>		
	0.52	
<i>For Aerial Infrared Thermography Roof Investigation, Add</i>		
	0.52	
01 45 23 00-0106 Building Moisture Investigation Using Infrared Thermography (01 45 23 00-0099)		
Note: For finding moisture in walls and windows.		
01 45 23 00-0107 EA Building Moisture Investigation Using Infrared Thermography, Mobilization Charge	1,963.84	
01 45 23 00-0108 CSF Up To 1,000 SF, Building Moisture Investigation Using Infrared Thermography	6.20	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	3.10	
01 45 23 00-0109 CSF >1,000 To 5,000 SF, Building Moisture Investigation Using Infrared Thermography.....	4.13	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	2.07	
01 45 23 00-0110 CSF >5,000 SF, Building Moisture Investigation Using Infrared Thermography	2.07	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	1.04	
01 45 23 00-0111 General Building Investigation Using Infrared Thermography (01 45 23 00-0099)		
Note: For finding missing or misplaced insulation, air leakage and delamination.		
01 45 23 00-0112 EA General Building Investigation Using Infrared Thermography, Mobilization Charge.....	4,031.04	
01 45 23 00-0113 CSF Up To 1,000 SF, General Building Investigation Using Infrared Thermography	6.20	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	3.10	

01 General Requirements**01 40 Quality Requirements****01 45 Quality Control**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0114 CSF >1,000 To 5,000 SF, General Building Investigation Using Infrared Thermography.....	4.13	
For Digital Or Analog Recording Of All Items, Add	2.07	
01 45 23 00-0115 CSF >5,000 SF, General Building Investigation Using Infrared Thermography.....	2.07	
For Digital Or Analog Recording Of All Items, Add	1.04	
01 45 23 00-0116 Electrical /Mechanical Equipment Scanning Using Infrared Thermography (01		
45 23 00-0099)		
Note: For diagnosing electrical issues such as loose connections, overloaded or imbalanced circuits, faulty breakers, damaged switches, faulty fuses, etc. For diagnosing electrical issues caused by resistance and mechanical issues caused by friction.		
01 45 23 00-0117 EA Electrical /Mechanical Equipment Scanning Using Infrared Thermography, Mobilization Charge.....	1,963.84	
01 45 23 00-0118 HR Electrical /Mechanical Equipment Scanning Using Infrared Thermography.....	263.27	
For Digital Or Analog Recording Of All Items, Add	39.42	
01 45 23 00-0119 Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0099)		
Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0120 EA Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge.....	1,963.84	
01 45 23 00-0121 CSF Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography.....	6.20	
For Digital Or Analog Recording Of All Items, Add	0.93	
01 45 23 00-0122 CSF >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography.....	4.13	
For Digital Or Analog Recording Of All Items, Add	0.62	
01 45 23 00-0123 Other Nondestructive Field Testing Services (01 45 23 00-0098)		
01 45 23 00-0124 HR ASNT Certified Level I NDT Consultant.....	98.10	
01 45 23 00-0125 HR ASNT Certified Level II NDT Consultant.....	122.40	
01 45 23 00-0126 HR ASNT Certified Level III NDT Consultant.....	140.55	
01 45 23 00-0127 HR Certified Industrial Radiography Radiation Safety Personnel.....	146.90	
01 45 23 00-0128 Testing Professional Services (01 45 23 00-0088)		
01 45 23 00-0129 HR Concrete, Steel, Masonry, Expansion Anchor And Soils Inspection.....	198.34	
01 45 23 00-0130 HR Laboratory Technician.....	191.94	
01 45 23 00-0131 HR Portable Digital Reinforcement Scanner.....	277.25	
01 45 23 00-0132 HR Subsurface Detection Radar System.....	469.19	
01 45 23 00-0133 HR Pavement Rehabilitation Analysis Using Deflectors.....	533.18	
01 45 29 Testing Laboratory Services (01 45)		
01 45 29 00-0001 Soil Borings Laboratory Tests (01 45 29)		
01 45 29 00-0002 EA Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test.....	146.84	
01 45 29 00-0003 EA Shrinkage Limit, Soil Borings Laboratory Test.....	46.85	
01 45 29 00-0004 EA Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test.....	112.95	
01 45 29 00-0005 EA Consolidation, Soil Borings Laboratory Test.....	790.65	
01 45 29 00-0006 EA Swell Test, Soil Borings Laboratory Test.....	156.14	
01 45 29 00-0007 EA In Place Density, Soil Borings Laboratory Test.....	33.88	
01 45 29 00-0008 EA Moisture Content, ASTM D2216, Soil Borings Laboratory Test.....	21.05	
01 45 29 00-0009 EA Hydrometer Analysis, Soil Borings Laboratory Test.....	271.78	
01 45 29 00-0010 EA Specific Gravity, ASTM D854, Soil Borings Laboratory Test.....	94.76	
01 45 29 00-0011 EA Partial Sieve Analysis, Soil Borings Laboratory Test.....	18.74	
01 45 29 00-0012 EA Laboratory Permeability, Soil Borings Laboratory Test.....	936.94	
01 45 29 00-0013 EA Sieve Analysis, ASTM D422, Soil Borings Laboratory Test.....	189.51	
01 45 29 00-0014 EA Sulfate Soundness, Soil Borings Laboratory Test.....	234.23	
01 45 29 00-0015 EA Los Angeles Abrasion, Soil Borings Laboratory Test.....	546.16	
01 45 29 00-0016 EA Soil Bearing Ratio, ASTM D1883.....	479.86	
01 45 29 00-0017 EA Compaction Test Subgrade, Soil Borings Laboratory Test.....	140.54	
01 45 29 00-0018 EA Compaction Test Base Course, Soil Borings Laboratory Test.....	118.91	
01 45 29 00-0019 EA In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....	462.13	
01 45 29 00-0020 EA Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....	71.83	
01 50 Temporary Facilities and Controls (01)		
Note: Tasks in this section shall be used as directed by owner.		
01 51 Temporary Utilities (01 50)		
01 51 13 Temporary Electricity (01 51)		
01 51 13 00-0001 Temporary Service Switch And/Or Building Feeder Switch (01 51 13)		
Note: Includes all connections and removal after use.		
01 51 13 00-0002 EA Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses.....	1,644.59	
01 51 13 00-0003 EA Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses.....	2,580.12	
01 51 13 00-0004 EA Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	4,631.21	
01 51 13 00-0005 EA Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	7,312.19	



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Utilities			01 51

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 51 13 00-0006	Temporary 120/208 Volt Main Lug Panelboard Complete With Branch Fuses (01 51 13) Note: Includes mounting on wall and removal after use.	
01 51 13 00-0007	EA Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	1,588.24
01 51 13 00-0008	EA Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	2,329.40
01 51 13 00-0009	EA Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	3,614.43
01 51 13 00-0010	EA Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	5,310.01

01 51 13 00-0011	Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards (01 51 13) Note: Includes all connections, fittings, supports and removal after use.	
01 51 13 00-0012	LF Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards	11.38
01 51 13 00-0013	LF Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards	12.47

01 51 26 Temporary Lighting (01 51)

01 51 26 00-0001	Temporary Lighting Devices (01 51 26) Note: Includes removal after use.	
01 51 26 00-0002	EA Temporary Exit Light.....	330.09
01 51 26 00-0003	EA Temporary 10 Light String With Cages.....	123.69
01 51 26 00-0004	EA Temporary High Bay Light	471.62

01 52 Construction Facilities (01 50)

Note: Tasks in this section shall be used as directed by owner for owner's use.

01 52 13 Field Offices and Sheds (01 52)

01 52 13 00-0001	Field Offices and Office Trailers (01 52 13) Note: Excludes furniture, utility connections and service. Minimum 6 months rental.	
01 52 13 00-0002	MO 8' x 24' Mobile Office, With Toilet.....	180.51
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	702.24
	<i>For Each Set-Up (Block And Level), Add</i>	420.89
	<i>For Each Anchoring Into Dirt, Add</i>	128.35
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	192.52
	<i>For Office Trailer Without Toilet, Deduct</i>	-36.10
01 52 13 00-0003	MO 8' x 32' Mobile Office, With Toilet.....	204.57
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	702.24
	<i>For Each Set-Up (Block And Level), Add</i>	420.89
	<i>For Each Anchoring Into Dirt, Add</i>	128.35
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	192.52
	<i>For Office Trailer Without Toilet, Deduct</i>	-40.91
01 52 13 00-0004	MO 10' x 36' Mobile Office, With Toilet.....	276.77
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	994.84
	<i>For Each Set-Up (Block And Level), Add</i>	686.71
	<i>For Each Anchoring Into Dirt, Add</i>	128.35
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	192.52
	<i>For Office Trailer Without Toilet, Deduct</i>	-55.35
01 52 13 00-0005	MO 10' x 40' Mobile Office, With Toilet.....	294.83
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	994.84
	<i>For Each Set-Up (Block And Level), Add</i>	686.71
	<i>For Each Anchoring Into Dirt, Add</i>	128.35
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	192.52
	<i>For Office Trailer Without Toilet, Deduct</i>	-58.97
01 52 13 00-0006	MO 10' x 44' Mobile Office, With Toilet.....	324.91
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	994.84
	<i>For Each Set-Up (Block And Level), Add</i>	686.71
	<i>For Each Anchoring Into Dirt, Add</i>	128.35
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	192.52
01 52 13 00-0007	MO 10' x 50' Mobile Office, With Toilet.....	342.96
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	994.84
	<i>For Each Set-Up (Block And Level), Add</i>	686.71
	<i>For Each Anchoring Into Dirt, Add</i>	128.35
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	192.52
01 52 13 00-0008	MO 12' x 32' Mobile Office, With Toilet.....	265.34
	<i>For Each Anchoring Into Dirt, Add</i>	128.35
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	192.52
	<i>For Each Delivery And Set-Up (Block And Level), Add</i>	987.94
	<i>For Each Knock-Down And Pick-Up, Add</i>	792.94
01 52 13 00-0009	MO 12' x 44' Mobile Office, With Toilet.....	354.76
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	994.84
	<i>For Each Set-Up (Block And Level), Add</i>	686.71
	<i>For Each Anchoring Into Dirt, Add</i>	128.35
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	192.52
01 52 13 00-0010	MO 12' x 50' Mobile Office, With Toilet.....	403.13
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	994.84
	<i>For Each Set-Up (Block And Level), Add</i>	686.71
	<i>For Each Anchoring Into Dirt, Add</i>	128.35
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	192.52

01	General Requirements
01 50	Temporary Facilities and Controls
01 52	Construction Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0011 MO 12' x 60' Mobile Office, With Toilet.....	439.23	
For Each Delivery And Removal, Two Round Trips, Add	994.84	
For Each Set-Up (Block And Level), Add	686.71	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0012 MO 24' x 60' Modular Office, With Toilet.....	962.68	
For Each Delivery And Removal, Two Round Trips, Add	1,872.65	
For Each Set-Up (Block And Level), Add	1,107.60	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet.....	1,155.22	
For Each Delivery And Removal, Two Round Trips, Add	1,872.65	
For Each Set-Up (Block And Level), Add	1,107.60	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet.....	549.03	
For Each Delivery And Removal, Two Round Trips, Add	1,872.65	
For Each Set-Up (Block And Level), Add	1,107.60	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0015 Accessories For Field Office Trailers (01 52 13)		
Note: Costs includes installation or placement in trailer.		
01 52 13 00-0016 MO Desk For Field Office Trailer.....	55.02	
01 52 13 00-0017 MO Rolling Desk Chair For Field Office Trailer.....	34.39	
01 52 13 00-0018 MO File Cabinet For Field Office Trailer.....	41.26	
01 52 13 00-0019 MO Table For Field Office Trailer.....	27.51	
01 52 13 00-0020 MO Folding Chair For Field Office Trailer.....	13.03	
01 52 13 00-0021 EA Phone Hook-Up For Field Office Trailer.....	151.30	
01 52 13 00-0022 MO Local Phone Service Per Phone Line For Field Office Trailer.....	96.28	
01 52 13 00-0023 MO Security System With Monitoring For Field Office Trailer.....	173.35	
01 52 13 00-0024 LF Perimeter Trailer Skirting For Field Office Trailer.....	15.41	
01 52 13 00-0025 LF Insulated Perimeter Trailer Skirting For Field Office Trailer.....	36.49	
01 52 13 00-0026 MO Steps For Field Office Trailer.....	44.92	
01 52 13 00-0027 MO Fax Machine For Field Office Trailer.....	68.77	
01 52 13 00-0028 MO Copier For Field Office Trailer.....	110.03	
01 52 13 00-0029 Storage Containers (01 52 13)		
01 52 13 00-0030 MO 8' x 8' x 10' Storage Container.....	221.38	
For Each Delivery And Removal, Two Round Trips, Add	176.76	
For >12 Months, Deduct	-66.41	
01 52 13 00-0031 MO 8' x 8' x 20' Storage Container.....	231.44	
For Each Delivery And Removal, Two Round Trips, Add	194.44	
For >12 Months, Deduct	-69.43	
01 52 13 00-0032 MO 8' x 8' x 40' Storage Container.....	273.70	
For Each Delivery And Removal, Two Round Trips, Add	391.59	
For >12 Months, Deduct	-82.11	
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19)		
Note: Includes set-up, servicing once per week (unless task states otherwise) and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet.....	65.66	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	26.00	
01 52 19 00-0003 MO Portable Chemical Toilet.....	196.99	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	26.00	
01 52 19 00-0004 WK Americans With Disabilities Act Compliant Portable Chemical Toilet.....	78.32	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	26.00	
01 52 19 00-0005 MO Americans With Disabilities Act Compliant Portable Chemical Toilet.....	229.83	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	26.00	
01 52 19 00-0006 WK Two Station Portable Handwash.....	52.71	
For Each Delivery, Add	26.00	
01 52 19 00-0007 MO Two Station Portable Handwash.....	159.90	
For Each Delivery, Add	26.00	
01 52 19 00-0008 MO 6 Station, Portable Toilets, Multi Trailer.....	4,372.42	
Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)		
01 52 19 00-0009 WK Service 6 Station Trailer Restrooms, 3 Times Per Week.....	2,205.20	
For One Additional Service Per Week, Add	735.07	
Note: For one less service per week, UOM to be negative one (-1)		
01 53 Temporary Construction (01 50)		
01 53 16 Temporary Decking (01 53)		
01 53 16 00-0001 Temporary Walkways And Railings (01 53 16)		
Note: Includes removal after use.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 53 16 00-0002 SF Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	7.82	
01 53 16 00-0003 LF Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail	35.24	
01 53 16 00-0004 LF Temporary Wood Guardrail Base, 12" x 12" Timber Beam	14.64	
01 53 16 00-0005 RSR Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	26.35	
 01 53 23 Temporary Ramps (01 53)		
01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access (01 53 23) Note: Includes removal after use.		
01 53 23 00-0002 SF Temporary Plywood For Wheel Barrow Access.....	1.70	0.52
 01 54 Construction Aids (01 50)		
01 54 09 Personnel Protection Equipment (01 54)		
01 54 09 00-0001 Personnel Protection Equipment (01 54 09) Note: Personnel Protection Equipment (PPE) for workers safety is considered as part of the Contractor's and Workers responsibility. Includes, but are not limited to; protective work gloves, hearing protection, protective clothing, reflective vests, safety glasses or face shields, dust masks, hard hats, appropriate foot protection (slip resistant, puncture-resistant soles, safety-toed), safety harnesses with lifeline, etc. Review JOC Note and specifications for requirements.		
01 54 09 00-0002 NTE Personnel Protection Equipment	0.00	
 01 54 23 Temporary Scaffolding and Platforms (01 54)		
01 54 23 00-0001 Scaffolding (01 54 23) Note: Additional scaffolding rental for work above the normal working height.		
01 54 23 00-0002 Scaffolding Rental - Rental Only (01 54 23 00-0001) Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.		
01 54 23 00-0003 CCF Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month).....	28.77	
For Up To 25, Add	11.51	
For >25 To 50, Add	7.19	
For >50 To 150, Add	2.88	
01 54 23 00-0004 CCF Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	32.35	
For Up To 25, Add	12.94	
For >25 To 50, Add	8.09	
For >50 To 150, Add	3.24	
01 54 23 00-0005 CCF Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month).....	43.15	
For Up To 25, Add	17.26	
For >25 To 50, Add	10.79	
For >50 To 150, Add	4.32	
01 54 23 00-0006 Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001) Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.		
01 54 23 00-0007 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	54.96	
01 54 23 00-0008 CCF >20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	68.70	
01 54 23 00-0009 CCF >40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	82.43	
01 54 23 00-0010 CCF >60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	90.68	
01 54 23 00-0011 CCF >80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	104.42	
01 54 23 00-0012 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories	65.95	
01 54 23 00-0013 Heavy Duty Masonry Scaffolding Rental - Rental Only (01 54 23 00-0001) Note: Monthly rental of actual scaffolding volume rented. For projects over 2 stories. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection.		
01 54 23 00-0014 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	65.80	
01 54 23 00-0015 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....	120.63	
01 54 23 00-0016 LF Aluminum Joists (LF / Month)	10.70	
01 54 23 00-0017 LF Aluminum Stringers (LF / Month).....	15.34	
01 54 23 00-0018 EA Screw Jack With U-Plate For Stringers (EA / Month).....	19.33	
01 54 23 00-0019 Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001) Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.		
01 54 23 00-0020 CCF Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	87.93	
01 54 23 00-0021 CCF >20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	109.91	
01 54 23 00-0022 CCF >40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	131.90	

01	General Requirements
01 50	Temporary Facilities and Controls
01 54	Construction Aids



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0023	CCF		>60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	142.89	
01 54 23 00-0024	CCF		>80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	159.38	
01 54 23 00-0025			Scaffolding Accessories (01 54 23 00-0001) See CSI section 01 54 23 00-0019 for erection.		
01 54 23 00-0026	CSF		Netting for Exterior Building Scaffolding..... Note: Includes removal after use.	40.16	
01 54 23 00-0027			Rolling Scaffolding (01 54 23) Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.		
01 54 23 00-0028	DAY		>14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	11.48	
01 54 23 00-0029	WK		>14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	45.99	
01 54 23 00-0030	MO		>14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	183.93	
01 54 23 00-0031	DAY		>20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	19.21	
01 54 23 00-0032	WK		>20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	76.95	
01 54 23 00-0033	MO		>20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	307.82	
01 54 23 00-0034	EA		>14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold.....	107.59	
01 54 23 00-0035	EA		>20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold.....	134.48	
01 54 23 00-0036			Shoring Posts (01 54 23) Note: Includes moving to perform task and removal after use. No additional cost for relocating will be allowed.		
01 54 23 00-0037	DAY		6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post.....	7.73	
01 54 23 00-0038	WK		6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post.....	23.18	
01 54 23 00-0039	MO		6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post.....	38.63	
01 54 23 00-0040			Temporary Lumber, Single Use (01 54 23) Note: Includes removal after use.		
01 54 23 00-0041	SF		5/16" CD Grade Plywood, Temporary Lumber.....	2.70	
01 54 23 00-0042	SF		1/2" CD Grade Plywood, Temporary Lumber.....	3.22	
01 54 23 00-0043	SF		5/8" CD Grade Plywood, Temporary Lumber.....	3.45	
01 54 23 00-0044	SF		3/4" CD Grade Plywood, Temporary Lumber.....	3.84	
01 54 23 00-0045	SF		1" CD Grade Plywood, Temporary Lumber.....	5.74	
01 54 23 00-0046	LF		2" x 4" Temporary Lumber.....	3.34	
01 54 23 00-0047	LF		2" x 6" Temporary Lumber.....	4.24	
01 54 23 00-0048	LF		2" x 8" Temporary Lumber.....	5.15	
01 54 23 00-0049	LF		2" x 10" Temporary Lumber.....	6.05	
01 54 23 00-0050	LF		2" x 12" Temporary Lumber.....	6.96	
01 54 23 00-0051	LF		3" x 8" Temporary Lumber.....	6.96	
01 54 23 00-0052	LF		3" x 10" Temporary Lumber.....	8.31	
01 54 23 00-0053	LF		3" x 12" Temporary Lumber.....	9.68	
01 54 23 00-0054	LF		4" x 4" Temporary Lumber.....	4.54	
01 54 23 00-0055	LF		4" x 6" Temporary Lumber.....	6.54	
01 54 23 00-0056	LF		6" x 6" Temporary Lumber.....	8.53	
01 54 23 00-0057	LF		6" x 8" Temporary Lumber.....	11.09	
01 54 23 00-0058	LF		12" x 12" Temporary Lumber.....	27.25	
01 54 23 00-0059			Temporary Precast Concrete Blocks (01 54 23) Note: Includes removal after use.		
01 54 23 00-0060	EA		2' x 2' x 2' Temporary Precast Concrete (Ecology) Block..... Note: Includes removal after use.	128.38	
01 54 23 00-0061	EA		2' x 2' x 4' Temporary Precast Concrete (Ecology) Block..... Note: Includes removal after use.	160.49	
01 54 23 00-0062	EA		2' x 2' x 8' Temporary Precast Concrete (Ecology) Block..... Note: Includes removal after use.	215.51	
01 54 26			Temporary Swing Staging (01 54) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.		
01 54 26 00-0001			Swing Stage (01 54 26) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.		
01 54 26 00-0002	MO		7' Swing Stage, Electric Operated.....	2,892.02	
01 54 26 00-0003	MO		10' Swing Stage, Electric Operated.....	3,036.62	
01 54 26 00-0004	MO		14' Swing Stage, Electric Operated.....	3,181.22	
01 54 26 00-0005	MO		20' Swing Stage, Electric Operated.....	3,325.82	
01 54 26 00-0006	MO		24' Swing Stage, Electric Operated.....	3,470.43	
01 54 26 00-0007	MO		30' Swing Stage, Electric Operated.....	3,615.03	
01 54 26 00-0008	MO		42' Swing Stage, Electric Operated.....	3,759.63	
01 54 26 00-0009	MO		12' Swing Stage, Manually Operated.....	833.93	
01 54 26 00-0010	MO		24' Swing Stage, Manually Operated.....	1,042.42	
01 54 26 00-0011	EA		Swing Stage Platform From Hooks, Erection And Dismantling..... Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.	4,586.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 26 00-0012 EA Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.	6,373.83	
01 54 26 00-0013 EA Move Swing Stage Platform From Hooks To Different Location At Same Roof.....	2,411.73	
01 54 26 00-0014 EA Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof.....	3,359.19	
 01 55 Vehicular Access and Parking <small>(01 50)</small>		
01 55 23 Temporary Roads <small>(01 55)</small>		
01 55 23 00-0001 Temporary Stabilized Construction Entrance <small>(01 55 23)</small>		
Note: As per Caltrans detail.		
01 55 23 00-0002 SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly	4.32	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003 SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly	5.76	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
 01 55 23 00-0004 Rumble Trench Plate <small>(01 55 23)</small>		
01 55 23 00-0005 MO 8' x 10' Steel Rumble Trench Plate Rental	386.26	
01 55 23 00-0006 EA Placement And Removal Of Rumble Plate	93.90	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007 EA Relocate And Adjust Location Of Rumble Plate.....	23.48	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
 01 55 23 00-0008 Temporary Road Ramps (Godwin) <small>(01 55 23)</small>		
Note: Excludes asphalt and gravel.		
01 55 23 00-0009 EA 4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	4,728.97	206.39
01 55 23 00-0010 EA 6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	6,436.64	309.59
01 55 23 00-0011 EA 8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	8,894.97	412.79
01 55 23 00-0012 EA 12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	18,484.36	515.99
01 55 23 00-0013 EA 24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	27,135.45	619.18
 01 55 26 Traffic Control <small>(01 55)</small>		
01 55 26 00-0001 Temporary Removable Preformed Traffic Black Line Mask <small>(01 55 26)</small>		
Note: Includes installation and removal after use.		
01 55 26 00-0002 LF 6" Removable Traffic Black Line Mask	5.04	
01 55 26 00-0003 LF 8" Removable Traffic Black Line Mask	6.09	
 01 55 26 00-0004 Temporary Preformed Traffic Line Tape <small>(01 55 26)</small>		
Note: Includes installation and removal after use.		
01 55 26 00-0005 LF 4" Reflective Removable Traffic Line Tape	5.10	
01 55 26 00-0006 LF 6" Reflective Removable Traffic Line Tape	6.95	
01 55 26 00-0007 LF 8" Reflective Removable Traffic Line Tape	8.71	
 01 55 26 00-0008 Temporary Painted Traffic Lines <small>(01 55 26)</small>		
Note: Includes installation and removal after use.		
01 55 26 00-0009 LF 4" Temporary Painted Traffic Lines	2.29	
<i>For Not Removed, Deduct</i>		
	-1.48	
01 55 26 00-0010 LF 6" Temporary Painted Traffic Lines	3.02	
<i>For Not Removed, Deduct</i>		
	-2.02	
01 55 26 00-0011 LF 8" Temporary Painted Traffic Lines	3.79	
<i>For Not Removed, Deduct</i>		
	-2.58	
01 55 26 00-0012 EA 2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	3.31	
01 55 26 00-0013 EA 2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	3.34	
 01 55 26 00-0014 Temporary Pedestrian Traffic Control <small>(01 55 26)</small>		
01 55 26 00-0015 CLF 1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	12.48	
01 55 26 00-0016 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	16.85	
01 55 26 00-0017 CLF 3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow	9.02	
01 55 26 00-0018 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow	11.31	
01 55 26 00-0019 CLF 3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent	12.67	
01 55 26 00-0020 CLF 6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent	18.25	
01 55 26 00-0021 CLF 1" Exterior Vinyl Tape (Warning Tape)	15.45	
01 55 26 00-0022 CLF 2" Exterior Vinyl Tape (Warning Tape)	22.48	
01 55 26 00-0023 CLF 3" Exterior Vinyl Tape (Warning Tape)	29.24	
01 55 26 00-0024 CLF 4" Exterior Vinyl Tape (Warning Tape)	34.26	
 01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent <small>(01 55 26)</small>		
Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.		
01 55 26 00-0026 LF 4" Linear Delineation System.....	10.93	

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 55	Vehicular Access and Parking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0027 LF 6" Linear Delineation System.....	14.79	
01 55 26 00-0028 Temporary Traffic Protection <small>(01 55 26)</small>		
01 55 26 00-0029 Temporary Portable Traffic Control Device Usage <small>(01 55 26 00-0028)</small>		
<small>Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.</small>		
01 55 26 00-0030 DAY 28" Cone With Reflective Collar.....	0.83	
01 55 26 00-0031 WK 28" Cone With Reflective Collar.....	2.49	
01 55 26 00-0032 MO 28" Cone With Reflective Collar.....	7.47	
01 55 26 00-0033 DAY Vertical Panel.....	2.51	
01 55 26 00-0034 WK Vertical Panel.....	7.52	
01 55 26 00-0035 MO Vertical Panel.....	22.55	
01 55 26 00-0036 DAY Channelizer Drum.....	2.72	
01 55 26 00-0037 WK Channelizer Drum.....	8.16	
01 55 26 00-0038 MO Channelizer Drum.....	24.48	
01 55 26 00-0039 DAY Stackable Channelizer Panel.....	1.29	
01 55 26 00-0040 WK Stackable Channelizer Panel.....	3.86	
01 55 26 00-0041 MO Stackable Channelizer Panel.....	11.57	
01 55 26 00-0042 DAY Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.78	
01 55 26 00-0043 WK Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	5.34	
01 55 26 00-0044 MO Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	16.03	
01 55 26 00-0045 DAY Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	3.95	
01 55 26 00-0046 WK Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	11.84	
01 55 26 00-0047 MO Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	35.53	
01 55 26 00-0048 DAY Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	4.50	
01 55 26 00-0049 WK Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	13.50	
01 55 26 00-0050 MO Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	40.49	
01 55 26 00-0051 DAY Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	8.23	
01 55 26 00-0052 WK Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	24.69	
01 55 26 00-0053 MO Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	74.06	
01 55 26 00-0054 DAY Up To 10' Wide A Frame Barricade.....	4.51	
01 55 26 00-0055 WK Up To 10' Wide A Frame Barricade.....	13.54	
01 55 26 00-0056 MO Up To 10' Wide A Frame Barricade.....	40.62	
01 55 26 00-0057 DAY Type A Or C Flasher.....	0.92	
01 55 26 00-0058 WK Type A Or C Flasher.....	2.76	
01 55 26 00-0059 MO Type A Or C Flasher.....	8.28	
01 55 26 00-0060 DAY Type B Flasher (High Intensity).....	4.99	
01 55 26 00-0061 WK Type B Flasher (High Intensity).....	14.97	
01 55 26 00-0062 MO Type B Flasher (High Intensity).....	44.91	
01 55 26 00-0063 Temporary Traffic Barriers Usage <small>(01 55 26 00-0028)</small>		
<small>Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.</small>		
01 55 26 00-0064 DAY 6' Long Portable Parking Curbs.....	2.15	
01 55 26 00-0065 WK 6' Long Portable Parking Curbs.....	6.45	
01 55 26 00-0066 MO 6' Long Portable Parking Curbs.....	19.34	
01 55 26 00-0067 DAY 6' Long Portable Speed Bumps.....	6.36	
01 55 26 00-0068 WK 6' Long Portable Speed Bumps.....	19.08	
01 55 26 00-0069 MO 6' Long Portable Speed Bumps.....	57.24	
01 55 26 00-0070 DAY Up To 12.5' Concrete Traffic Barrier.....	15.28	
01 55 26 00-0071 WK Up To 12.5' Concrete Traffic Barrier.....	45.84	
01 55 26 00-0072 MO Up To 12.5' Concrete Traffic Barrier.....	137.51	
01 55 26 00-0073 DAY >12.5' To 20' Concrete Traffic Barrier.....	30.56	
01 55 26 00-0074 WK >12.5' To 20' Concrete Traffic Barrier.....	91.68	
01 55 26 00-0075 MO >12.5' To 20' Concrete Traffic Barrier.....	275.03	
01 55 26 00-0076 DAY 6' x 32" Tall Plastic Water Barrier.....	18.25	
01 55 26 00-0077 WK 6' x 32" Tall Plastic Water Barrier.....	54.74	
01 55 26 00-0078 MO 6' x 32" Tall Plastic Water Barrier.....	164.23	
01 55 26 00-0079 DAY 6' x 46" Tall Plastic Water Barrier.....	26.06	
01 55 26 00-0080 WK 6' x 46" Tall Plastic Water Barrier.....	78.17	
01 55 26 00-0081 MO 6' x 46" Tall Plastic Water Barrier.....	234.50	
01 55 26 00-0082 DAY Sand Filled Crash Attenuator Barrels.....	10.20	
01 55 26 00-0083 WK Sand Filled Crash Attenuator Barrels.....	30.60	
01 55 26 00-0084 MO Sand Filled Crash Attenuator Barrels.....	91.79	
01 55 26 00-0085 Temporary Portable Signs And Message Displays Usage <small>(01 55 26 00-0028)</small>		
<small>Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.</small>		
01 55 26 00-0086 DAY Mesh Or Vinyl Roll-up Sign With Stand.....	8.01	
01 55 26 00-0087 WK Mesh Or Vinyl Roll-up Sign With Stand.....	24.02	
01 55 26 00-0088 MO Mesh Or Vinyl Roll-up Sign With Stand.....	72.06	
01 55 26 00-0089 DAY Aluminum Sign And Post.....	3.71	
01 55 26 00-0090 WK Aluminum Sign And Post.....	11.14	
01 55 26 00-0091 MO Aluminum Sign And Post.....	33.43	
01 55 26 00-0092 DAY Aluminum Sign And A Frame Stand.....	6.05	
01 55 26 00-0093 WK Aluminum Sign And A Frame Stand.....	18.16	
01 55 26 00-0094 MO Aluminum Sign And A Frame Stand.....	54.49	
01 55 26 00-0095 DAY Trailer Mounted Flashing Arrow Board.....	135.00	



General Requirements		01
Temporary Facilities and Controls		01 50
Vehicular Access and Parking		01 55

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0096 WK Trailer Mounted Flashing Arrow Board	373.66	
01 55 26 00-0097 MO Trailer Mounted Flashing Arrow Board	988.39	
01 55 26 00-0098 DAY Trailer Mounted Portable Variable Message Sign (PVMS)	363.99	
01 55 26 00-0099 WK Trailer Mounted Portable Variable Message Sign (PVMS)	970.64	
01 55 26 00-0100 MO Trailer Mounted Portable Variable Message Sign (PVMS)	1,941.28	
01 55 26 00-0101 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	1,361.99	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0102 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	4,085.97	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0103 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	12,257.91	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0104	Place And Remove Temporary Traffic Protection Using Truck <small>(01 55 26 00-0028)</small>	
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0039 for delivery >15 miles.		
01 55 26 00-0105 EA Placement And Removal Of Up To 250 Cones Using Truck	3.68	
01 55 26 00-0106 EA Placement And Removal Of >250 Cones Using Truck	3.22	
01 55 26 00-0107 EA Placement And Removal Of Up To 250 Panels/Channelizers Using Truck	6.07	
01 55 26 00-0108 EA Placement And Removal Of >250 Panels/Channelizers Using Truck	5.05	
01 55 26 00-0109 EA Placement And Removal Of Up To 250 Barricades Using Truck	9.18	
01 55 26 00-0110 EA Placement And Removal Of >250 Barricades Using Truck	7.35	
01 55 26 00-0111 EA Placement And Removal Of Curbs/Speed Bumps Using Truck	9.18	
01 55 26 00-0112 EA Placement And Removal Of Portable Sign And Stand Using Truck	5.51	
01 55 26 00-0113 EA Placement And Removal Of Aluminum Sign And Post Using Truck	22.97	
01 55 26 00-0114 EA Placement And Removal Of Trailer Mounted Boards And Signals Using Truck	68.90	
01 55 26 00-0115 EA Placement And Removal Of Up To 12.5' Concrete Traffic Barrier	93.90	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
	<i>For 1 Barrier, Add</i>	234.75
	<i>For 2 Barriers, Add</i>	84.51
	<i>For 3 Barriers, Add</i>	28.17
01 55 26 00-0116 EA Placement And Removal Of >12.5' Concrete Traffic Barrier	140.84	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
	<i>For 1 Barrier, Add</i>	352.10
	<i>For 2 Barriers, Add</i>	126.76
	<i>For 3 Barriers, Add</i>	42.25
01 55 26 00-0117 EA Placement And Removal Of Plastic Water Barrier	53.93	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization tasks.		
	<i>For 1 Barrier, Add</i>	117.35
	<i>For 2 Barriers, Add</i>	42.25
	<i>For 3 Barriers, Add</i>	14.08
01 55 26 00-0118 EA Placement And Removal Of Crash Attenuator Barrels	70.42	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
	<i>For 1 Barrier, Add</i>	176.05
	<i>For 2 Barriers, Add</i>	63.38
	<i>For 3 Barriers, Add</i>	21.13
01 55 26 00-0119	Place And Remove Temporary Traffic Protection From Roadside (Daily) <small>(01 55 26 00-0028)</small>	
01 55 26 00-0120 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside	2.29	
01 55 26 00-0121 EA Placement And Removal Of >250 Cones By Hand From Roadside	1.83	
01 55 26 00-0122 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside	3.06	
01 55 26 00-0123 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside	2.44	
01 55 26 00-0124 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside	4.60	
01 55 26 00-0125 EA Placement And Removal Of >250 Barricades By Hand From Roadside	3.68	
01 55 26 00-0126 EA Placement And Removal Of Portable Sign And Stand From Roadside	2.78	
01 55 26 00-0127 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside	34.44	
01 55 26 00-0128 EA Roadside Relocation Of Concrete Traffic Barrier	46.94	
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
01 55 26 00-0129	Temporary Rumble Strips <small>(01 55 26)</small>	
Note: Includes removal after use.		
01 55 26 00-0130 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip	13.04	
01 55 26 00-0131 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip	9.38	
01 56	Temporary Barriers and Enclosures <small>(01 50)</small>	
Note: Includes removal after use.		
01 56 16	Temporary Dust Barriers <small>(01 56)</small>	
01 56 16 00-0001	Temporary Sheeting For Protection <small>(01 56 16)</small>	
Note: Includes removal after use.		
01 56 16 00-0002 SF 6 Mil, Plastic Sheeting, Applied To Floors	0.37	
01 56 16 00-0003 SF 6 Mil, Plastic Sheeting, Applied To Walls	0.47	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0004	SF		6 Mil, Plastic Sheeting, Applied To Ceilings.....	0.63	
01 56 16 00-0005	SF		6 Mil, Plastic Sheeting, Applied To Scaffolding.....	0.62	
01 56 16 00-0006	SF		6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....	0.45	
01 56 16 00-0007	SF		6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....	0.55	
01 56 16 00-0008	SF		6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings.....	0.71	
01 56 16 00-0009	SF		6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding.....	0.67	
01 56 16 00-0010	SF		10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.86	
01 56 16 00-0011	SF		6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Floors.....	0.48	
01 56 16 00-0012	SF		6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Walls.....	0.58	
01 56 16 00-0013	SF		6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Ceilings.....	0.74	
01 56 16 00-0014	SF		6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Scaffolding.....	0.70	
01 56 16 00-0015	SF		6 Mil, Reinforced, Plastic Sheeting, Applied To Floors.....	0.47	
01 56 16 00-0016	SF		6 Mil, Reinforced, Plastic Sheeting, Applied To Walls.....	0.57	
01 56 16 00-0017	SF		6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.73	
01 56 16 00-0018	SF		6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.69	
01 56 16 00-0019	SF		6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors.....	0.54	
01 56 16 00-0020	SF		6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls.....	0.64	
01 56 16 00-0021	SF		6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.80	
01 56 16 00-0022	SF		6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.76	
01 56 16 00-0023			Accessories For Temporary Sheeting (01 56 16)		
			Note: Includes removal after use.		
01 56 16 00-0024	EA		7' Zipper Door For Plastic Sheeting.....	22.62	
01 56 16 00-0025	LF		Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....	9.19	
			Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.		
01 56 16 00-0026			Temporary Critical Barriers For Protection (01 56 16)		
			Note: Includes removal after use.		
01 56 16 00-0027	EA		Up To 1 SF Individual Critical Barriers.....	12.29	
			Note: For Outlets And Receptacles		
01 56 16 00-0028	EA		>1 To 4 SF Individual Critical Barriers.....	18.63	
			Note: For diffusers, ceiling speakers, return grilles, etc.		
01 56 16 00-0029	EA		>4 To 8 SF Individual Critical Barriers.....	25.04	
			Note: For diffusers, return grilles, access doors, light fixtures, etc.		
01 56 16 00-0030	EA		>8 To 32 SF Individual Critical Barriers.....	39.14	
			Note: For doors, windows, etc.		
01 56 16 00-0031			Temporary Stud Wall (01 56 16)		
			Note: Includes removal after use.		
01 56 16 00-0032			Temporary Stud Wall With Drywall (01 56 16 00-0031)		
			Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.		
01 56 16 00-0033			Temporary Stud Wall With Drywall (01 56 16 00-0032)		
01 56 16 00-0034	SF		3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.66	
			For Metal Studs 24" On Center, Add/Deduct.....	0.47	
01 56 16 00-0035	SF		1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.66	
			For Metal Studs 24" On Center, Add/Deduct.....	0.47	
01 56 16 00-0036	SF		5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.75	
			For Metal Studs 24" On Center, Add/Deduct.....	0.47	
01 56 16 00-0037	SF		3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.11	
			For Metal Studs 24" On Center, Add/Deduct.....	0.57	
01 56 16 00-0038	SF		1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.11	
			For Metal Studs 24" On Center, Add/Deduct.....	0.57	
01 56 16 00-0039	SF		5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.29	
			For Metal Studs 24" On Center, Add/Deduct.....	0.57	
01 56 16 00-0040			Temporary Stud Wall With Fire Rated Drywall (01 56 16 00-0032)		
01 56 16 00-0041	SF		1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.76	
			For Metal Studs 24" On Center, Add/Deduct.....	0.47	
01 56 16 00-0042	SF		5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.79	
			For Metal Studs 24" On Center, Add/Deduct.....	0.47	
01 56 16 00-0043	SF		5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.74	
			For Metal Studs 24" On Center, Add/Deduct.....	0.47	
01 56 16 00-0044	SF		3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.44	
			For Metal Studs 24" On Center, Add/Deduct.....	0.47	
01 56 16 00-0045	SF		1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.31	
			For Metal Studs 24" On Center, Add/Deduct.....	0.57	
01 56 16 00-0046	SF		5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.38	
			For Metal Studs 24" On Center, Add/Deduct.....	0.57	
01 56 16 00-0047	SF		5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.27	
			For Metal Studs 24" On Center, Add/Deduct.....	0.57	
01 56 16 00-0048	SF		3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	10.68	
			For Metal Studs 24" On Center, Add/Deduct.....	0.57	



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Barriers and Enclosures			01 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 56 16 00-0049 Temporary Stud Wall With Oriented Strand Board (OSB) (01 56 16 00-0031)
 Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.

01 56 16 00-0050	SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	6.76	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.47
01 56 16 00-0051	SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	6.83	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.47
01 56 16 00-0052	SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.03	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.47
01 56 16 00-0053	SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.14	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.47
01 56 16 00-0054	SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	9.32	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.57
01 56 16 00-0055	SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	9.46	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.57
01 56 16 00-0056	SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	9.86	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.57
01 56 16 00-0057	SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	10.07	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.57

01 56 16 00-0058 Temporary Stud Wall With BC Plywood (01 56 16 00-0031)
 Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.

01 56 16 00-0059	SF 3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.24	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.47
01 56 16 00-0060	SF 1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.49	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.47
01 56 16 00-0061	SF 5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.61	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.47
01 56 16 00-0062	SF 3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.80	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.47
01 56 16 00-0063	SF 3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	10.27	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.57
01 56 16 00-0064	SF 1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	10.78	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.57
01 56 16 00-0065	SF 5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	11.01	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.57
01 56 16 00-0066	SF 3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	11.40	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.57

01 56 16 00-0067 Temporary Stud Wall With Plastic Sheeting (01 56 16 00-0031)
 Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.

01 56 16 00-0068	SF 6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	3.94	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.35
01 56 16 00-0069	SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.02	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.35
01 56 16 00-0070	SF 6 Mil, Fire Retardant, Anti-Static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.05	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.35
01 56 16 00-0071	SF 6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.04	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.35
01 56 16 00-0072	SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.11	
	<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.35

01 56 16 00-0073 Temporary Doors (01 56 16 00-0031)
 Note: For temporary stud walls. Includes removal after use.

01 56 16 00-0074	EA Temporary Metal Door And Frame	656.54	
	Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.		

01 56 16 00-0075 Temporary Floor Protection (01 56 16)
 Note: Includes removal after use.

01 56 16 00-0076	SF 1/8" Thick, Masonite For Temporary Floor Protection	1.70	
01 56 16 00-0077	SF 1/2" Thick, Plywood For Temporary Floor Protection	1.76	
01 56 16 00-0078	SF 3/4" Thick, Plywood For Temporary Floor Protection	2.06	
01 56 16 00-0079	LF 38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection	1.01	
01 56 16 00-0080	LF 36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection	0.32	
01 56 16 00-0081	CSF 3 Mil, Temporary Self-adhesive Carpet Protection Film	26.16	
01 56 16 00-0082	SF Burlap For Temporary Floor Protection	0.70	

01 56 16 00-0083 Sticky Mats (01 56 16)
 Note: Includes removal after use.

01 56 16 00-0084	EA 18" x 36", 30 Layer Sticky Mat	36.18	
	<i>For 60 Layers Instead Of 30, Add</i>		23.90
01 56 16 00-0085	EA 18" x 46", 30 Layer Sticky Mat	41.49	
	<i>For 60 Layers Instead Of 30, Add</i>		27.89
01 56 16 00-0086	EA 24" x 36", 30 Layer Sticky Mat	41.49	
	<i>For 60 Layers Instead Of 30, Add</i>		27.89

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0087 EA 25" x 45", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	54.77 37.85	
01 56 16 00-0088 EA 36" x 36", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	60.08 41.83	
01 56 16 00-0089 EA 36" x 46", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	65.39 45.81	
01 56 16 00-0090 EA 36" x 60", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	131.78 95.60	
01 56 16 00-0091 EA 36" x 72", 30 Layer Sticky Mat	157.27	
01 56 26 Temporary Fencing (01 56)		
01 56 26 00-0001 Temporary Fencing (01 56 26) Note: Per ASTM A392-06 Standards		
01 56 26 00-0002 Temporary Chain Link Fence (01 56 26 00-0001) Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts.		
01 56 26 00-0003 Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)		
01 56 26 00-0004 LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.50 -0.15 -0.31 -0.46 1.60	
01 56 26 00-0005 LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.24 -0.17 -0.35 -0.52 2.55	
01 56 26 00-0006 LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	9.97 -0.29 -0.58 -0.87 3.60	
01 56 26 00-0007 LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	21.90 -0.87 -1.73 -2.60 4.75	
01 56 26 00-0008 Temporary Chain Link Fence, >6 To 12 Months (01 56 26 00-0002)		
01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.81 -0.17 -0.34 -0.51 1.60	
01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.58 -0.19 -0.38 -0.57 2.55	
01 56 26 00-0011 LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	10.54 -0.32 -0.64 -0.96 3.60	
01 56 26 00-0012 LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	23.63 -0.95 -1.91 -2.86 4.75	
01 56 26 00-0013 Temporary Chain Link Fence, >12 To 18 Months (01 56 26 00-0002)		
01 56 26 00-0014 LF Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.15 -0.19 -0.37 -0.56 1.60	
01 56 26 00-0015 LF Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.97 -0.21 -0.42 -0.63 2.55	
01 56 26 00-0016 LF Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	11.20 -0.35 -0.71 -1.06 3.60	
01 56 26 00-0017 LF Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	25.53 -1.05 -2.10 -3.14 4.75	



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Barriers and Enclosures			01 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0018 Temporary Chain Link Fence, >18 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0019 LF Temporary 4' High Chain Link Fence And Posts, >18 Months	7.52	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.41	
For >500, Deduct	-0.61	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0020 LF Temporary 6' High Chain Link Fence And Posts, >18 Months	8.36	
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.46	
For >500, Deduct	-0.69	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months	11.89	
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.16	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....	27.63	
For >100 To 250, Deduct	-1.15	
For >250 To 500, Deduct	-2.31	
For >500, Deduct	-3.46	
For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0023 Temporary Chain Link Fence Gates <small>(01 56 26 00-0001)</small>		
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0024 for core drilling in asphalt or concrete.		
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0023)</small>		
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0024)</small>		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	259.44	
For Each LF Shade Cloth, Add	14.55	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	440.89	
For Each LF Shade Cloth, Add	36.37	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	493.67	
For Each LF Shade Cloth, Add	43.64	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	561.94	
For Each LF Shade Cloth, Add	54.55	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	673.08	
For Each LF Shade Cloth, Add	72.74	
01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	749.21	
For Each LF Shade Cloth, Add	87.29	
01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0024)</small>		
01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	277.77	
For Each LF Shade Cloth, Add	23.19	
01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	476.19	
For Each LF Shade Cloth, Add	57.96	
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	534.38	
For Each LF Shade Cloth, Add	69.56	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	619.28	
For Each LF Shade Cloth, Add	86.95	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	748.57	
For Each LF Shade Cloth, Add	115.93	
01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	849.47	
For Each LF Shade Cloth, Add	139.11	
01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0024)</small>		
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	310.19	
For Each LF Shade Cloth, Add	32.73	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	545.78	
For Shade Cloth, Add	81.83	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	610.38	
For Shade Cloth, Add	98.20	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	698.78	
For Shade Cloth, Add	122.75	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	854.00	
For Shade Cloth, Add	163.66	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	991.22	
For Shade Cloth, Add	196.40	
01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0024)</small>		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	375.77	
For Each LF Shade Cloth, Add	43.19	
01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	654.46	
For Each LF Shade Cloth, Add	107.97	
01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	733.41	
For Each LF Shade Cloth, Add	129.57	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	838.37	
For Each LF Shade Cloth, Add	161.96	
01 56 26 00-0051 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,024.86	
For Each LF Shade Cloth, Add	215.94	
01 56 26 00-0052 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,184.09	
For Each LF Shade Cloth, Add	259.13	
01 56 26 00-0053 Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0023)		
01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0055 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	269.18	
For Each LF Shade Cloth, Add	14.55	
01 56 26 00-0056 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	456.05	
For Each LF Shade Cloth, Add	36.37	
01 56 26 00-0057 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	510.98	
For Each LF Shade Cloth, Add	43.64	
01 56 26 00-0058 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	581.42	
For Each LF Shade Cloth, Add	54.55	
01 56 26 00-0059 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	696.89	
For Each LF Shade Cloth, Add	72.74	
01 56 26 00-0060 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	775.19	
For Each LF Shade Cloth, Add	87.29	
01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0062 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	287.95	
For Each LF Shade Cloth, Add	23.19	
01 56 26 00-0063 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	492.03	
For Each LF Shade Cloth, Add	57.96	
01 56 26 00-0064 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	552.49	
For Each LF Shade Cloth, Add	69.56	
01 56 26 00-0065 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	639.65	
For Each LF Shade Cloth, Add	86.95	
01 56 26 00-0066 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	773.46	
For Each LF Shade Cloth, Add	115.93	
01 56 26 00-0067 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	876.63	
For Each LF Shade Cloth, Add	139.11	
01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0069 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	321.40	
For Each LF Shade Cloth, Add	32.73	
01 56 26 00-0070 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	563.21	
For Shade Cloth, Add	81.83	
01 56 26 00-0071 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	630.30	
For Shade Cloth, Add	98.20	
01 56 26 00-0072 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	721.18	
For Shade Cloth, Add	122.75	
01 56 26 00-0073 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	881.38	
For Shade Cloth, Add	163.66	
01 56 26 00-0074 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,021.10	
For Shade Cloth, Add	196.40	
01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0076 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	389.77	
For Each LF Shade Cloth, Add	43.19	
01 56 26 00-0077 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	676.24	
For Each LF Shade Cloth, Add	107.97	
01 56 26 00-0078 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	758.30	
For Each LF Shade Cloth, Add	129.57	
01 56 26 00-0079 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	866.37	
For Each LF Shade Cloth, Add	161.96	
01 56 26 00-0080 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,059.09	
For Each LF Shade Cloth, Add	215.94	
01 56 26 00-0081 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,221.43	
For Each LF Shade Cloth, Add	259.13	
01 56 26 00-0082 Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)		
01 56 26 00-0083 4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0084 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	279.41	
For Each LF Shade Cloth, Add	14.55	
01 56 26 00-0085 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	471.96	
For Each LF Shade Cloth, Add	36.37	
01 56 26 00-0086 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	529.17	
For Each LF Shade Cloth, Add	43.64	
01 56 26 00-0087 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	601.88	
For Each LF Shade Cloth, Add	54.55	
01 56 26 00-0088 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	721.89	
For Each LF Shade Cloth, Add	72.74	



		General Requirements	01
		Temporary Facilities and Controls	01 50
		Temporary Barriers and Enclosures	01 56

10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0089 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	802.46 87.29	
01 56 26 00-0090 6' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0091 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	298.65 23.19	
01 56 26 00-0092 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	508.67 57.96	
01 56 26 00-0093 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	571.50 69.56	
01 56 26 00-0094 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	661.03 86.95	
01 56 26 00-0095 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	799.60 115.93	
01 56 26 00-0096 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	905.14 139.11	
01 56 26 00-0097 8' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0098 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	333.16 32.73	
01 56 26 00-0099 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	581.51 81.83	
01 56 26 00-0100 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	651.21 98.20	
01 56 26 00-0101 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	744.71 122.75	
01 56 26 00-0102 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	910.14 163.66	
01 56 26 00-0103 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	1,052.46 196.40	
01 56 26 00-0104 10' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0105 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	404.48 43.19	
01 56 26 00-0106 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	699.11 107.97	
01 56 26 00-0107 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	784.44 129.57	
01 56 26 00-0108 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	895.78 161.96	
01 56 26 00-0109 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	1,095.03 215.94	
01 56 26 00-0110 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	1,260.64 259.13	
01 56 26 00-0111 Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0023)</small>		
01 56 26 00-0112 4' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0113 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	289.63 14.55	
01 56 26 00-0114 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	487.87 36.37	
01 56 26 00-0115 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	547.35 43.64	
01 56 26 00-0116 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	622.34 54.55	
01 56 26 00-0117 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	746.90 72.74	
01 56 26 00-0118 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	829.74 87.29	
01 56 26 00-0119 6' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0120 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	309.34 23.19	
01 56 26 00-0121 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	525.30 57.96	
01 56 26 00-0122 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	590.51 69.56	
01 56 26 00-0123 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	682.42 86.95	
01 56 26 00-0124 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	825.74 115.93	
01 56 26 00-0125 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	933.66 139.11	
01 56 26 00-0126 8' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0127 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	344.92	
For Each LF Shade Cloth, Add	32.73	
01 56 26 00-0128 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	599.81	
For Shade Cloth, Add	81.83	
01 56 26 00-0129 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	672.13	
For Shade Cloth, Add	98.20	
01 56 26 00-0130 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	768.23	
For Shade Cloth, Add	122.75	
01 56 26 00-0131 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	938.89	
For Shade Cloth, Add	163.66	
01 56 26 00-0132 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	1,083.83	
For Shade Cloth, Add	196.40	
01 56 26 00-0133 10' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0134 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	419.18	
For Each LF Shade Cloth, Add	43.19	
01 56 26 00-0135 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	721.99	
For Each LF Shade Cloth, Add	107.97	
01 56 26 00-0136 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	810.58	
For Each LF Shade Cloth, Add	129.57	
01 56 26 00-0137 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	925.19	
For Each LF Shade Cloth, Add	161.96	
01 56 26 00-0138 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,130.97	
For Each LF Shade Cloth, Add	215.94	
01 56 26 00-0139 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,299.85	
For Each LF Shade Cloth, Add	259.13	
01 56 26 00-0140 Temporary Chain Link Fence Panels (Portable) (01 56 26 00-0001)		
Note: Includes delivery, set-up and removal. Excludes sandbags.		
01 56 26 00-0141 Temporary Chain Link Fence Panels (Portable), Up To 6 Months (01 56 26 00-0140)		
01 56 26 00-0142 LF Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months	7.10	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.37	
For >500, Deduct	-0.55	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0143 LF Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months	7.89	
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.41	
For >500, Deduct	-0.62	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0144 LF Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months	10.75	
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.66	
For >500, Deduct	-0.99	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0145 Temporary Chain Link Fence Panels (Portable), >6 To 12 Months (01 56 26 00-0140)		
01 56 26 00-0146 LF Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months	7.41	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.40	
For >500, Deduct	-0.60	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0147 LF Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months	8.23	
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.44	
For >500, Deduct	-0.67	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0148 LF Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months	11.33	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.72	
For >500, Deduct	-1.08	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0149 Temporary Chain Link Fence Panels (Portable), >12 To 18 Months (01 56 26 00-0140)		
01 56 26 00-0150 LF Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months	7.73	
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.43	
For >500, Deduct	-0.64	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0151 LF Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months	8.63	
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.48	
For >500, Deduct	-0.73	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0152 LF Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months	11.98	
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.18	
For Each LF Shade Cloth, Add	3.60	



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Barriers and Enclosures			01 56

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0153 Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154 LF Temporary 4' High Chain Link Fence Panels (Portable), >18 Months	8.12	
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.47	
For >500, Deduct	-0.70	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0155 LF Temporary 6' High Chain Link Fence Panels (Portable), >18 Months	9.02	
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.52	
For >500, Deduct	-0.78	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months	12.66	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.85	
For >500, Deduct	-1.28	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag.....	6.59	
Note: Includes placement and removal.		
01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001)		
Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts	3.69	
01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts	5.54	
01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts	8.00	
01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts	9.85	
01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0165 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing	0.86	
01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing	1.03	
01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing	1.16	
01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts.....	111.95	
01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts.....	129.18	
01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts.....	159.32	
01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts.....	172.25	
01 56 26 00-0174 Temporary Safety Fence (01 56 26)		
Note: Includes removal after use.		
01 56 26 00-0175 LF 48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence	3.34	
01 56 29 Temporary Protective Walkways (01 56)		
01 56 29 00-0001 Temporary Sidewalk Bridge Protection (01 56 29)		
01 56 29 00-0002 Installation of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0003 LF Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	175.87	
Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
For 3 Post System, Add	6.00	
For Each Additional Foot Over 8' Wide, Add	3.00	
For Each Additional Foot Over 8' High, Add	2.00	
01 56 29 00-0004 LF Installation of Netting for Sidewalk Bridge	4.48	
01 56 29 00-0005 Monthly Rental of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0006 LF Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	14.47	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	2.17	
01 56 29 00-0007 LF Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	16.30	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	2.45	
01 56 29 00-0008 LF Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	18.11	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	2.72	
01 56 29 00-0009 LF Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	18.11	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	2.72	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 29 00-0010 LF Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	19.90	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	2.99	
01 56 29 00-0011 LF Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	23.55	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	3.53	
01 56 29 00-0012 LF Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	21.74	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	3.26	
01 56 29 00-0013 LF Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	25.36	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	3.80	
01 56 29 00-0014 LF Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	27.14	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	4.07	
01 56 29 00-0015 LF Monthly Rental of Netting for Sidewalk Bridge.....	2.71	
01 56 29 00-0016 Removal of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0017 LF Removal Of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	36.60	
Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
For 3 Post System, Add	2.50	
For Each Additional Foot Over 8' Wide, Add	1.25	
For Each Additional Foot Over 8' High, Add	0.75	
01 56 29 00-0018 LF Removal Of Netting For Sidewalk Bridge.....	2.24	
01 56 29 00-0019 Temporary Safety Nets (01 56 29)		
Note: Includes removal after use.		
01 56 29 00-0020 SF Small Mesh Debris Netting.....	2.15	
Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.		
01 56 33 Temporary Security Barriers (01 56)		
01 56 33 00-0001 Board-up Opening With Plywood (01 56 33)		
Note: For use where directed by owner for boarding up door and window openings.		
01 56 33 00-0002 OPN Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day.....	12.92	
01 56 33 00-0003 SF 5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening.....	8.38	
01 56 33 00-0004 SF 3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening.....	9.70	
01 56 33 00-0005 Temporary Pedestrian Barricade (01 56 33)		
Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0006 DAY 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	13.52	
01 56 33 00-0007 WK 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	32.83	
01 56 33 00-0008 MO 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	98.50	
01 56 39 Temporary Tree and Plant Protection (01 56)		
01 56 39 00-0001 Temporary Tree Guards (01 56 39)		
Note: Includes digging holes and removal after use.		
01 56 39 00-0002 EA Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	189.98	
01 56 39 00-0003 EA 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	225.89	
01 56 39 00-0004 EA 6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	245.64	
01 57 Temporary Controls (01 50)		
01 57 23 Temporary Storm Water Pollution Control (01 57)		
01 57 23 00-0001 Temporary Drain Guard (01 57 23)		
Note: Includes removal after use.		
01 57 23 00-0002 EA 36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227).....	104.74	
01 57 23 00-0003 EA 36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217).....	102.75	
Note: Up to 0.87 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0004 EA 36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219).....	130.74	
Note: Up to 1.38 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0005 EA 60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356).....	128.73	
Note: Up to 1.55 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0006 EA 60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358).....	158.72	
Note: Up to 2.06 gallons oil, up to 40 lbs sediment.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 58 Project Identification (01 50)

Note: Includes removal after use.

01 58 13 Temporary Project Signage (01 58)

01 58 13 00-0001	Project Sign (01 58 13)		
01 58 13 00-0002	MDO Plywood Signs (01 58 13 00-0001) Note: Excludes posts.		
01 58 13 00-0003	Reflectorized, MDO Plywood Signs (01 58 13 00-0002)		
01 58 13 00-0004	Engineer Grade, Reflectorized, MDO Plywood Signs (01 58 13 00-0003)		
01 58 13 00-0005	EA Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign For High-Intensity Grade, Add For Diamond Grade, Add	167.08 41.90 80.80	23.69
01 58 13 00-0006	EA >8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign For High-Intensity Grade, Add For Diamond Grade, Add	288.95 83.80 161.61	24.76
01 58 13 00-0007	EA >16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign For High-Intensity Grade, Add For Diamond Grade, Add	410.81 125.70 242.41	25.84
01 58 13 00-0008	EA >24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign For High-Intensity Grade, Add For Diamond Grade, Add	532.68 167.59 323.22	26.92
01 58 13 00-0009	SF >32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign For High-Intensity Grade, Add For Diamond Grade, Add	16.69 5.24 10.10	0.86
01 58 13 00-0010	Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0002)		
01 58 13 00-0011	One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)		
01 58 13 00-0012	EA Up To 8 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	209.78	23.69
01 58 13 00-0013	EA >8 To 16 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	250.71	24.76
01 58 13 00-0014	EA >16 To 24 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	314.68	25.84
01 58 13 00-0015	EA >24 To 32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	375.09	26.92
01 58 13 00-0016	SF >32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	11.77	0.86
01 58 13 00-0017	Full Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)		
01 58 13 00-0018	EA Up To 8 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	214.36	23.69
01 58 13 00-0019	EA >8 To 16 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	275.36	24.76
01 58 13 00-0020	EA >16 To 24 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	339.73	25.84
01 58 13 00-0021	EA >24 To 32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	396.56	26.92
01 58 13 00-0022	SF >32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	12.44	0.86
01 58 13 00-0023	Fabricate And Install New Posts (01 58 13 00-0001) Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024	LF Galvanized Metal Channel Sign Posts	16.30	
01 58 13 00-0025	LF 4" x 4" Pressure Treated Wood Sign Posts	13.37	
01 58 13 00-0026	LF 4" x 6" Pressure Treated Wood Sign Posts	16.17	
01 58 13 00-0027	Owner Supplied Signs (01 58 13 00-0001)		
01 58 13 00-0028	EA Installation And Removal Of Owner Supplied Project Sign	86.13	

01 60 Product Requirements (01)

01 66 Product Storage and Handling Requirements (01 60)

01 66 19 Product Handling Requirements (01 66)

Note: Not for use in conjunction with other tasks when the distance is less than 2 stories or less than 125'.

01 66 19 00-0001	Transfer Delivered Materials Between Floors (01 66 19) Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0002	CY Transfer Delivered Material Between Floors Via Stairs, Per Floor Note: Quantity equals volume of materials multiplied by number of floors traveled.	16.56	
01 66 19 00-0003	CY Transfer Delivered Material Between Floors Via Elevator, Per Trip Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.	10.77	
01 66 19 00-0004	Transfer Delivered Materials Distances Greater Than 125' (01 66 19) Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0005	CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'	6.72	
01 66 19 00-0006	Transfer Demolition Debris Between Floors (01 66 19) Note: Only for use with demolition tasks.		

01	01	General Requirements
	01 60	Product Requirements
	01 66	Product Storage and Handling Requirements



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 66 19 00-0007 CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor Note: Quantity equals material volume times bulk factor times number of floors traveled.	16.56	
01 66 19 00-0008 CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.	10.77	
01 66 19 00-0009 Transfer Demolition Debris Distances Greater Than 125' ^(01 66 19) Note: Only for use with demolition tasks.		
01 66 19 00-0010 CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'.....	6.72	
01 66 19 00-0011 Moving Furniture And Furnishings ^(01 66 19) Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.		
01 66 19 00-0012 SF Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.	1.07	

01 70 Execution and Closeout Requirements ⁽⁰¹⁾

01 71 Examination and Preparation ^(01 70)

01 71 13 Mobilization ^(01 71)

01 71 13 00-0001 Equipment Delivery, Pickup, Mobilization And Demobilization ^(01 71 13)

Note: Excludes flagman for traffic control where necessary.

01 71 13 00-0002 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.	466.77	
01 71 13 00-0003 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed..... Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.	1,534.67	

01 71 13 00-0004 Crane Delivery, Pickup, Mobilization And Demobilization ^(01 71 13)

Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.

01 71 13 00-0005 EA Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	497.88	
<i>For >30 To 60 Miles Radius, Add</i>	124.47	
<i>For >60 To 100 Miles Radius, Add</i>	199.15	
01 71 13 00-0006 EA >20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	809.06	
<i>For >30 To 60 Miles Radius, Add</i>	202.27	
<i>For >60 To 100 Miles Radius, Add</i>	323.62	
01 71 13 00-0007 EA >40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	1,120.24	
<i>For >30 To 60 Miles Radius, Add</i>	280.06	
<i>For >60 To 100 Miles Radius, Add</i>	448.10	
01 71 13 00-0008 EA >70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	1,804.84	
<i>For >30 To 60 Miles Radius, Add</i>	451.21	
<i>For >60 To 100 Miles Radius, Add</i>	721.94	
01 71 13 00-0009 EA >110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	2,265.38	
<i>For >30 To 60 Miles Radius, Add</i>	566.35	
<i>For >60 To 100 Miles Radius, Add</i>	906.15	
01 71 13 00-0010 EA >125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	3,248.70	
<i>For >30 To 60 Miles Radius, Add</i>	704.82	
<i>For >60 To 100 Miles Radius, Add</i>	1,127.71	
01 71 13 00-0011 EA >150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	3,248.70	
<i>For >30 To 60 Miles Radius, Add</i>	812.18	
<i>For >60 To 100 Miles Radius, Add</i>	1,299.48	
01 71 13 00-0012 EA >185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	3,634.57	
<i>For >30 To 60 Miles Radius, Add</i>	908.64	
<i>For >60 To 100 Miles Radius, Add</i>	1,453.83	
01 71 13 00-0013 EA 75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup.	1,929.30	
<i>For >30 To 60 Miles Radius, Add</i>	482.33	
<i>For >60 To 100 Miles Radius, Add</i>	771.72	
01 71 13 00-0014 EA 100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup.	3,049.56	
<i>For >30 To 60 Miles Radius, Add</i>	762.39	
<i>For >60 To 100 Miles Radius, Add</i>	1,219.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0015 EA 125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	3,858.62	
Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add	964.66	
For >60 To 100 Miles Radius, Add	1,543.45	
01 71 13 00-0016 EA 150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	4,792.15	
Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add	1,198.04	
For >60 To 100 Miles Radius, Add	1,916.86	
01 71 13 00-0017 EA 200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	5,974.63	
Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add	1,493.66	
For >60 To 100 Miles Radius, Add	2,389.85	
01 71 13 00-0018 EA 250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	6,970.41	
Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add	1,742.60	
For >60 To 100 Miles Radius, Add	2,788.16	
01 71 13 00-0019 EA 300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	9,957.72	
Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add	2,489.43	
For >60 To 100 Miles Radius, Add	3,983.09	
01 71 13 00-0020 EA 500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	13,655.83	
Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add	3,413.63	
For >60 To 100 Miles Radius, Add	5,461.81	
01 71 23 Field Engineering (01 71)		
01 71 23 16 Construction Surveying (01 71 23)		
01 71 23 16-0001 Conventional Topographic Survey (01 71 23 16)		
Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.		
01 71 23 16-0002 ACR Conventional Topographic Survey Of Clear Area With Few To No Obstacles	1,198.10	
01 71 23 16-0003 ACR Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings).....	3,318.34	
01 71 23 16-0004 ACR Conventional Topographic Survey Of Clear Area With Few Structures, And/Or Wooded (5-25% Buildings)	4,768.49	
01 71 23 16-0005 ACR Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings).....	7,145.12	
01 71 23 16-0006 ACR Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings)	8,935.85	
01 71 23 16-0007 Property Lines Survey (01 71 23 16)		
Note: Not to be added to tasks in the "Conventional Topographic Survey" section.		
01 71 23 16-0008 LF Survey Property Lines On Cleared Land	2.62	
01 71 23 16-0009 LF Survey Property Lines On Slightly Wooded Land	3.04	
01 71 23 16-0010 LF Survey Property Lines On Wooded Land	3.55	
01 71 23 16-0011 Survey Monument (01 71 23 16)		
01 71 23 16-0012 EA 3' Precast Survey Monument.....	191.27	
For Owner Furnished Monument, Deduct	-74.00	
01 71 23 16-0013 EA Precast Survey Monument Box With Cast Iron Frame And Cover.....	287.12	
01 71 23 16-0014 EA Riser Ring For Survey Monument.....	148.73	
01 71 23 16-0015 EA Adjust Survey Monument Cover To Grade	222.00	
01 71 23 16-0016 Facade Surveying (01 71 23 16)		
01 71 23 16-0017 LF Facade Survey And Reports (LF Of Facade x Number Of Floors)	7.19	
01 71 23 16-0018 Utility Survey (01 71 23 16)		
Note: This survey is only for the location of underground utilities.		
01 71 23 16-0019 ACR Survey Clear Area For Underground Utilities.....	6,066.66	
01 71 23 16-0020 GPR Bridge Deck And Pavement Inspection (01 71 23 16)		
01 71 23 16-0021 GPR Bridge Deck And Pavement Inspection Mobilization Fee (01 71 23 16-0020)		
Note: One mobilization per project.		
01 71 23 16-0022 EA GPR Bridge Deck And Pavement Inspection Mobilization Fee.....	3,753.20	
01 71 23 16-0023 Bridge Deck Delamination Survey, GPR Bridge Deck Inspection (01 71 23 16-0020)		
Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0024 EA Survey Fee, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	2,814.90	
01 71 23 16-0025 SF Up To 5,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....	1.18	
01 71 23 16-0026 SF >5,000 To 10,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.94	
01 71 23 16-0027 SF >10,000 To 25,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.75	
01 71 23 16-0028 SF >25,000 To 50,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.56	
01 71 23 16-0029 SF >50,000 To 100,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.45	
01 71 23 16-0030 SF >100,000 To 250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.36	
01 71 23 16-0031 SF >250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.26	

01	01	General Requirements
	01 70	Execution and Closeout Requirements
	01 71	Examination and Preparation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 71 23 16-0032	Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection <small>(01 71 23 16-0020)</small> Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.	
01 71 23 16-0033	EA Survey Fee, Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection.....	938.30
01 71 23 16-0034	SF Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	0.06

01 71 23 16-0035	Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection <small>(01 71 23 16-0020)</small> Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.	
01 71 23 16-0036	EA Survey Fee, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....	938.30
01 71 23 16-0037	SF Up To 5,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....	0.43
01 71 23 16-0038	SF >5,000 To 10,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.34
01 71 23 16-0039	SF >10,000 To 25,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.26
01 71 23 16-0040	SF >25,000 To 50,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.21
01 71 23 16-0041	SF >50,000 To 100,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.17
01 71 23 16-0042	SF >100,000 To 250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.13
01 71 23 16-0043	SF >250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.09

01 71 23 16-0044	Pavement Structure And Thickness Measurement, GPR Pavement Inspection <small>(01 71 23 16-0020)</small> Note: Each project will use one task for the length of the pavement surveyed.	
01 71 23 16-0045	LM Up To 4 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	6,977.20
01 71 23 16-0046	LM >4 To 9 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	3,041.97
01 71 23 16-0047	LM >9 To 49 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	2,265.06
01 71 23 16-0048	LM >49 To 99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,236.68
01 71 23 16-0049	LM >99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	972.08

01 71 23 16-0050	Pavement Thickness Contour (Mapping), GPR Pavement Inspection <small>(01 71 23 16-0020)</small> Note: Each project will use one task for the length of the pavement surveyed.	
01 71 23 16-0051	LM Up To 4 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	8,878.19
01 71 23 16-0052	LM >4 To 9 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	4,175.44
01 71 23 16-0053	LM >9 To 49 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	3,171.45
01 71 23 16-0054	LM >49 To 99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	1,777.14
01 71 23 16-0055	LM >99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	1,405.57

01 71 23 16-0056	Pavement Void Detection (Mapping), GPR Pavement Inspection <small>(01 71 23 16-0020)</small> Note: Each project will use one task for the length of the pavement surveyed.	
01 71 23 16-0057	LM Up To 4 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	10,542.74
01 71 23 16-0058	LM >4 To 9 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	5,166.28
01 71 23 16-0059	LM >9 To 49 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	3,963.38
01 71 23 16-0060	LM >49 To 99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	2,250.04
01 71 23 16-0061	LM >99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	1,782.77

01 71 23 16-0062	Drone Survey (Extreme Aerial Productions) <small>(01 71 23 16)</small> Note: Thermographic services to electrical line grid inspections.	
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01 71 23 16-0063	Mobilization For Drone Surveying <small>(01 71 23 16-0062)</small>	
01 71 23 16-0064	EA Mobilization For Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	252.26
01 71 23 16-0065	EA Mobilization For > 1000 Acres Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	630.64
01 71 23 16-0066	EA Mobilization For Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter	168.17
01 71 23 16-0067	EA Mobilization For Drone Road Survey For Topography/Progression/Inspection	336.34
01 71 23 16-0068	EA Mobilization For Drone Survey Stockpile	168.17
01 71 23 16-0069	EA Mobilization For Drone Inspection	168.17
01 71 23 16-0070	EA Mobilization For Qualitative Drone Thermal Inspection.....	336.34
01 71 23 16-0071	EA Mobilization For Quantitative Drone Thermal Inspection	420.42
01 71 23 16-0072	EA Mobilization For Drone Agricultural Multispectral Survey.....	672.68
01 71 23 16-0073	EA Mobilization For Drone Building Inspection/Scan/Thermal.....	504.51
01 71 23 16-0074	EA Mobilization For Drone 3D Modelling	420.42
01 71 23 16-0075	EA Mobilization For Drone Spraying Crops Or Sanitation	756.76
01 71 23 16-0076	EA Mobilization For Drone Video Progression/Marketing	168.17
01 71 23 16-0077	EA Mobilization For Drone Pictures Progression/Marketing	168.17
01 71 23 16-0078	EA Mobilization For Drone Training, Flying, Test Prep, Equipment Checks	168.17
01 71 23 16-0079	EA Mobilization For Drone Accident Reconstruction	168.17
01 71 23 16-0080	EA Mobilization For Drone Landfill Survey	252.26
01 71 23 16-0081	EA Mobilization For Drone Event Security Using Tethered Drones.....	336.34
01 71 23 16-0082	EA Mobilization For Drone Emergency Response.....	840.85
01 71 23 16-0083	EA Mobilization For Drone Cell Tower Inspection	252.26



General Requirements		01
Execution and Closeout Requirements		01 70
Examination and Preparation		01 71

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0084 Drone Surveying <small>(01 71 23 16-0062)</small>		
01 71 23 16-0085 HR Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing 613.82 Note: 3 hour minimum <i>For Visual Observation, Add</i> 168.17 <i>For Additional Manpower, Add</i> 168.17	613.82	
01 71 23 16-0086 HR > 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing 781.99 <i>For Visual Observation, Add</i> 252.26 <i>For Additional Manpower, Add</i> 201.80	781.99	
01 71 23 16-0087 HR Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter 504.51 Note: 3 hour minimum <i>For Visual Observation, Add</i> 168.17 <i>For Additional Manpower, Add</i> 168.17	504.51	
01 71 23 16-0088 HR Drone Road Survey For Topography/Progression/Inspection 588.60 Note: 3 hour minimum <i>For Visual Observation, Add</i> 252.26 <i>For Additional Manpower, Add</i> 168.17	588.60	
01 71 23 16-0089 HR Drone Survey Stockpile 420.42 Note: 3 hour minimum <i>For Visual Observation, Add</i> 168.17 <i>For Additional Manpower, Add</i> 168.17	420.42	
01 71 23 16-0090 HR Drone Inspection 588.60 Note: 3 hour minimum <i>For Visual Observation, Add</i> 168.17 <i>For Additional Manpower, Add</i> 168.17	588.60	
01 71 23 16-0091 HR Qualitative Drone Thermal Inspection 672.68 Note: 5 hour minimum <i>For Visual Observation, Add</i> 252.26 <i>For Additional Manpower, Add</i> 168.17	672.68	
01 71 23 16-0092 HR Quantitative Drone Thermal Inspection 1,009.02 Note: 5 hour minimum <i>For Visual Observation, Add</i> 252.26 <i>For Additional Manpower, Add</i> 168.17	1,009.02	
01 71 23 16-0093 HR Drone Agricultural Multispectral Survey 756.76 Note: 6 hour minimum <i>For Visual Observation, Add</i> 168.17 <i>For Additional Manpower, Add</i> 168.17	756.76	
01 71 23 16-0094 HR Drone Building Inspection/Scan/Thermal 672.68 Note: 3 hour minimum <i>For Visual Observation, Add</i> 252.26 <i>For Additional Manpower, Add</i> 168.17	672.68	
01 71 23 16-0095 HR Drone 3D Modelling 504.51 Note: 3 hour minimum <i>For Visual Observation, Add</i> 252.26 <i>For Additional Manpower, Add</i> 168.17	504.51	
01 71 23 16-0096 HR Drone Spraying Crops Or Sanitation 672.68 Note: 3 hour minimum <i>For Visual Observation, Add</i> 210.21 <i>For Additional Manpower, Add</i> 168.17	672.68	
01 71 23 16-0097 HR Drone Video Progression/Marketing 336.34 Note: 2 hour minimum <i>For Visual Observation, Add</i> 168.17 <i>For Additional Manpower, Add</i> 168.17	336.34	
01 71 23 16-0098 HR Drone Pictures Progression/Marketing 252.26 Note: 2 hour minimum <i>For Visual Observation, Add</i> 168.17 <i>For Additional Manpower, Add</i> 168.17	252.26	
01 71 23 16-0099 HR Drone Training, Flying, Test Prep, Equipment Checks 504.51 Note: 3 hour minimum	504.51	
01 71 23 16-0100 HR Drone Accident Reconstruction 756.76 Note: 2 hour minimum <i>For Visual Observation, Add</i> 168.17 <i>For Additional Manpower, Add</i> 168.17	756.76	
01 71 23 16-0101 HR Drone Landfill Survey 613.82 Note: 3 hour minimum <i>For Visual Observation, Add</i> 168.17 <i>For Additional Manpower, Add</i> 168.17	613.82	
01 71 23 16-0102 HR Drone Event Security Using Tethered Drones 420.42 Note: 3 hour minimum <i>For Visual Observation, Add</i> 168.17 <i>For Additional Manpower, Add</i> 168.17	420.42	
01 71 23 16-0103 HR Drone Emergency Response 420.42 Note: 3 hour minimum <i>For Visual Observation, Add</i> 252.26 <i>For Additional Manpower, Add</i> 168.17	420.42	
01 71 23 16-0104 HR Drone Cell Tower Inspection 420.42 Note: 3 hour minimum <i>For Visual Observation, Add</i> 210.21 <i>For Additional Manpower, Add</i> 168.17	420.42	
01 71 23 16-0105 Utilization And Deliverables For Drone Surveying <small>(01 71 23 16-0062)</small>		
01 71 23 16-0106 Day Utilization Of GPS Ground Control For Drone Surveying 420.42	420.42	
01 71 23 16-0107 Day Utilization Of GPS Base Station Per Day For Drone Surveying 420.42	420.42	
01 71 23 16-0108 HR Processing And Data Deliverables And Reporting For Drone Surveying 168.17 Note: 2 hour minimum	168.17	

01	01	General Requirements
	01 70	Execution and Closeout Requirements
	01 71	Examination and Preparation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0109	HR		Processing And Data Deliverables And Reporting Of Thermal For Drone Surveying..... Note: 3 hour minimum	336.34	
01 71 23 16-0110			Travel, Waivers, And Editing For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0111	MI		Travel Over 100 Miles For Drone Surveying..... Note: For additional miles over 100	0.97	
01 71 23 16-0112	EA		Overnight Stay Per Person For Drone Surveying	210.21	
01 71 23 16-0113	EA		Waiver Utilization B, C, D, And E For Drone Surveying..... Note: Restricted airspace	84.08	
01 71 23 16-0114	EA		Night Waiver For Drone Surveying	109.31	
01 71 23 16-0115	EA		Flying Over People Waiver For Drone Surveying	168.17	
01 71 23 16-0116	EA		Beyond Visual Line Of Sight (BVLOS) Waiver For Drone Surveying.....	840.85	
01 71 23 16-0117	HR		Editing Video For Drone Surveying..... Note: 2 hour minimum	168.17	
01 71 23 16-0118	HR		Editing Pictures For Drone Surveying..... Note: 2 hour minimum	84.08	
01 71 23 16-0119	HR		Custom Post Processing For Drone Surveying..... Note: 3 hour minimum	252.26	
01 71 36			Non-Destructive Concrete Examination (01 71)		
01 71 36 00-0001			Electromagnetic Survey (01 71 36) Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
01 71 36 00-0002			Electromagnetic (SIR/GPR) Survey (01 71 36 00-0001)		
01 71 36 00-0003	EA		Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,085.40	
01 71 36 00-0004	EA		>1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,628.10	
01 71 36 00-0005	EA		>4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	3,256.20	
01 71 36 00-0006			Reports And Mapping For Electromagnetic (SIR/GPR) Surveys (01 71 36 00-0001)		
01 71 36 00-0007	EA		Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.	361.80	
01 71 36 00-0008	EA		GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes GPS coordinates of located items and reference items.	723.60	
01 71 36 00-0009	EA		CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes additions to the owner provided CAD drawing.	1,628.10	
01 74			Cleaning and Waste Management (01 70)		
01 74 13			Progress Cleaning (01 74) Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.		
01 74 13 00-0001			General (01 74 13)		
01 74 13 00-0002	CSF		Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent.....	21.56	
01 74 13 00-0003	CY		Collect Existing Debris And Load Into Truck Or Dumpster	25.25	
			Note: Per CY of debris removed.		
01 74 16			Site Maintenance (01 74)		
01 74 16 00-0001			Parking Lot, Roads And Pathway Maintenance (01 74 16) Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks in the Construction Task Catalog®.		
01 74 16 00-0002			Parking Lot, Road, And Street Sweeping (01 74 16 00-0001)		
01 74 16 00-0003	MSF		Sweep Parking Lot, With Street Sweeper.....	21.09	
01 74 16 00-0004	MSF		Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	25.31	
01 74 16 00-0005			Runway Sweeping (01 74 16 00-0001)		
01 74 16 00-0006	MSF		Sweep Runway, With Street Sweep	31.63	
01 74 19			Construction Waste Management and Disposal (01 74) Note: Tasks in this section shall be used as directed by owner.		
01 74 19 00-0001			Debris Chutes (01 74 19) Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.		
01 74 19 00-0002			Steel Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0003	LF		18" Diameter, Steel Temporary Debris Chute.....	40.41	
01 74 19 00-0004	LF		30" Diameter, Steel Temporary Debris Chute.....	61.34	



		General Requirements	01
		Execution and Closeout Requirements	01 70
		Cleaning and Waste Management	01 74

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0005 Plastic Temporary Debris Chutes <small>(01 74 19 00-0001)</small>		
01 74 19 00-0006 LF 24" Diameter, Plastic Temporary Debris Chute	15.99	
<i>For Steel Liner, Add</i>	3.15	
01 74 19 00-0007 LF 30" Diameter, Plastic Temporary Debris Chute	18.34	
<i>For Steel Liner, Add</i>	3.62	
01 74 19 00-0008 LF 36" Diameter, Plastic Temporary Debris Chute	20.67	
<i>For Steel Liner, Add</i>	4.08	
01 74 19 00-0009 Wood Temporary Debris Chutes <small>(01 74 19 00-0001)</small>		
01 74 19 00-0010 LF 4' x 4', Wood Temporary Debris Chute	31.66	
<i>Note: Includes fabrication and installation.</i>		
01 74 19 00-0011 Construction Dumpsters Rental <small>(01 74 19)</small>		
<i>Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.</i>		
01 74 19 00-0012 EA 10 CY Dumpster (1.5 Ton) "Construction Debris"	587.50	
<i>Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.</i>		
<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0013 EA 15 CY Dumpster (2 Ton) "Construction Debris"	634.98	
<i>Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.</i>		
<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0014 EA 20 CY Dumpster (3 Ton) "Construction Debris"	685.00	
<i>Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.</i>		
<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0015 EA 30 CY Dumpster (4 Ton) "Construction Debris"	734.96	
<i>Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.</i>		
<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0016 EA 40 CY Dumpster (6 Ton) "Construction Debris"	814.98	
<i>Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.</i>		
<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0017 EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only"	714.85	
<i>Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.</i>		
01 74 19 00-0018 EA 15 CY Low-Boy Dumpster Clean Recyclable	780.05	
<i>Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.</i>		
01 74 19 00-0019 EA 15 CY Low-Boy Dumpster Mixed Recyclable	838.26	
<i>Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.</i>		
01 74 19 00-0020 Concrete Washout Service <small>(01 74 19)</small>		
01 74 19 00-0021 MO Ramplless Concrete Washout Bin	589.50	
<i>Note: Includes delivery.</i>		
01 74 19 00-0022 MO Ramped Concrete Washout Bin	707.40	
<i>Note: Includes delivery.</i>		
01 74 19 00-0023 EA Interim Vacuum Service, Concrete Washout Bin	598.02	
<i>Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.</i>		
01 74 19 00-0024 EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin	1,295.71	
<i>Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.</i>		
01 74 19 00-0025 Debris Processing Fee <small>(01 74 19)</small>		
01 74 19 00-0026 Material Recycling Fees <small>(01 74 19 00-0025)</small>		
<i>Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.</i>		
01 74 19 00-0027 CY Drop-Off Asphalt At Recycling Center	45.04	
01 74 19 00-0028 CY Drop-Off Non Reinforced Concrete At Recycling Center	60.34	
01 74 19 00-0029 CY Drop-Off Reinforced Concrete At Recycling Center	90.52	
01 74 19 00-0030 CY Drop-Off Brick Or Block At Recycling Center	78.45	
01 74 19 00-0031 CY Drop-Off Dirt At Recycling Center	87.50	
01 74 19 00-0032 CY Drop-Off Dimensional Lumber At Recycling Center	84.48	
01 74 19 00-0033 Landfill Dump Fees <small>(01 74 19 00-0025)</small>		
<i>Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0039 for hauling.</i>		
01 74 19 00-0034 CY Traditional Building Construction Materials Landfill Dump Fee	40.16	
01 74 19 00-0035 TON Traditional Building Construction Materials, Landfill Dump Fee	175.00	
01 74 19 00-0036 CY Trees, Stumps And Brush, Landfill Dump Fee	48.34	
01 74 19 00-0037 CY Hazardous Materials And Rubbish Landfill Dump Fee	115.26	
<i>Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.</i>		
01 74 19 00-0038 CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	81.90	

01	01	General Requirements
	01 70	Execution and Closeout Requirements
	01 74	Cleaning and Waste Management



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0039 Hauling <small>(01 74 19)</small> Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0040 CYM Hauling On Paved Roads, First 15 Miles	0.97	
01 74 19 00-0041 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....	0.65	
01 74 19 00-0042 CYM Hauling On Unimproved Roads, First 15 Miles	1.49	
01 74 19 00-0043 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	1.16	
 01 74 23 Final Cleaning <small>(01 74)</small>		
01 74 23 00-0001 Cleaning Of Glass <small>(01 74 23)</small>		
01 74 23 00-0002 CSF Cleaning Of Existing Glass Surfaces	29.44	

END OF SECTION 01



Existing Conditions	02	02
Assessment	02 20	
Existing Material Assessment	02 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 Existing Conditions

02 20 Assessment ⁽⁰²⁾

02 25 Existing Material Assessment ^(02 20)

02 25 16 Existing Concrete, Masonry or Asphalt Assessment ^(02 25)

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 25 16 13 Concrete Assessment Drilling ^(02 25 16)

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 30 Subsurface Investigation ⁽⁰²⁾

02 32 Geotechnical Investigations ^(02 30)

02 32 13 Subsurface Drilling and Sampling ^(02 32)

See CSI section 01 45 23 00-0000 for testing and lab reports.

02 32 13 00-0001 Mobilization Of Drilling Crew ^(02 32 13)

02 32 13 00-0002 EA Mobilization Of Drilling Crew 1,213.49

02 32 13 00-0003 Auger Borings ^(02 32 13)

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals 36.55

02 32 13 00-0005 Cased Borings In Earth, With Samples ^(02 32 13)

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples 93.06

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples 159.13

02 32 13 00-0008 Drilling In Rock, BW Core (2.125") ^(02 32 13)

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing 98.51

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes 9.28

02 32 13 00-0011 Drilling In Rock, NW Core (2.98") ^(02 32 13)

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing 127.36

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes 10.67

02 32 13 00-0014 Test Pits For Boring Activities ^(02 32 13)

Note: Excludes backfill.

02 32 13 00-0015 Backhoe Dug Test Pits ^(02 32 13 00-0014)

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation 65.93

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation 76.91

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation 102.55

02 32 13 00-0019 Hand-Dug Test Pits ^(02 32 13 00-0014)

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation 191.38

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation 344.48

02 32 13 00-0022 Shelby Tube Sampling ^(02 32 13)

02 32 13 00-0023 EA Shelby Tube Sampling 52.27

02 32 13 00-0024 EA Penetration Test 42.59

02 32 13 00-0025 Grouting ^(02 32 13)

02 32 13 00-0026 VLF Boreholes 9.91

02 32 19 Exploratory Excavations ^(02 32)

02 32 19 00-0001 Hydro Excavation ^(02 32 19)

Note: Assumes on-site disposal.

02 32 19 00-0002 EA Hydro Excavation, Mobilization/Demobilization 165.95

02 32 19 00-0003 EA Hydro Excavation, Minimum Charge 663.82

Note: For projects where the total charge is less than the "Hydro Excavation Minimum" cost, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

02 32 19 00-0004 CY Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck) 36.87

Note: Normal soil conditions consist of silt, sand and gravel.

02	02 Existing Conditions
	02 30 Subsurface Investigation
	02 32 Geotechnical Investigations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 32 19 00-0005 CY Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck).....59.00
 Note: Adverse soil conditions consist of clay, glacial till and rocks.

02 40 Demolition and Structure Moving ⁽⁰²⁾

02 41 Demolition ^(02 40)

02 41 13 Selective Site Demolition ^(02 41)

02 41 13 13 Paving Removal ^(02 41 13)

Note: Includes break-up of material, loading into truck or dumpster and clean-up. Salvage tasks include placement on pallets and storage on site.

02 41 13 13-0001 By Machine, Break-up And Leave In Place Bituminous And Concrete Paving ^(02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting (where required) and disposal. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.

02 41 13 13-0002	SY Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving	7.02
	For >500 To 1,000, Deduct	-0.70
	For >1,000 To 2,500, Deduct	-1.26
	For >2,500 To 5,000, Deduct	-1.83
	For >5,000 To 10,000, Deduct	-2.39
	For >10,000, Deduct	-2.95
02 41 13 13-0003	SY >3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving	10.53
	For >500 To 1,000, Deduct	-1.05
	For >1,000 To 2,500, Deduct	-1.90
	For >2,500 To 5,000, Deduct	-2.74
	For >5,000 To 10,000, Deduct	-3.58
	For >10,000, Deduct	-4.42
02 41 13 13-0004	SY >6" To 8" By Machine, Break-up And Leave In Place Bituminous Paving	14.03
	For >500 To 1,000, Deduct	-1.40
	For >1,000 To 2,500, Deduct	-2.53
	For >2,500 To 5,000, Deduct	-3.65
	For >5,000 To 10,000, Deduct	-4.77
	For >10,000, Deduct	-5.89
02 41 13 13-0005	SY Up To 3" By Machine, Break-up And Leave In Place Concrete Paving	13.82
	For >500 To 1,000, Deduct	-1.38
	For >1,000 To 2,500, Deduct	-2.49
	For >2,500 To 5,000, Deduct	-3.59
	For >5,000 To 10,000, Deduct	-4.70
	For >10,000, Deduct	-5.80
02 41 13 13-0006	SY >3" To 6" By Machine, Break-up And Leave In Place Concrete Paving	19.52
	For >500 To 1,000, Deduct	-1.95
	For >1,000 To 2,500, Deduct	-3.51
	For >2,500 To 5,000, Deduct	-5.08
	For >5,000 To 10,000, Deduct	-6.64
	For >10,000, Deduct	-8.20
02 41 13 13-0007	SY >6" To 9" By Machine, Break-up And Leave In Place Concrete Paving	27.66
	For >500 To 1,000, Deduct	-2.77
	For >1,000 To 2,500, Deduct	-4.98
	For >2,500 To 5,000, Deduct	-7.19
	For >5,000 To 10,000, Deduct	-9.40
	For >10,000, Deduct	-11.62
02 41 13 13-0008	SY >9" To 14" By Machine, Break-up And Leave In Place Concrete Paving	39.04
	For >500 To 1,000, Deduct	-3.90
	For >1,000 To 2,500, Deduct	-7.03
	For >2,500 To 5,000, Deduct	-10.15
	For >5,000 To 10,000, Deduct	-13.27
	For >10,000, Deduct	-16.40
02 41 13 13-0009	SY >14" To 19" By Machine, Break-up And Leave In Place Concrete Paving	51.06
	For >500 To 1,000, Deduct	-5.11
	For >1,000 To 2,500, Deduct	-9.19
	For >2,500 To 5,000, Deduct	-13.28
	For >5,000 To 10,000, Deduct	-17.36
	For >10,000, Deduct	-21.45
02 41 13 13-0010	SY >19" To 24" By Machine, Break-up And Leave In Place Concrete Paving	66.37
	For >500 To 1,000, Deduct	-6.64
	For >1,000 To 2,500, Deduct	-11.95
	For >2,500 To 5,000, Deduct	-17.26
	For >5,000 To 10,000, Deduct	-22.57
	For >10,000, Deduct	-27.88

02 41 13 13-0011 By Hand, Break-up And Leave In Place Bituminous And Concrete Paving ^(02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles with jackhammer and hand tools. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting (where required) and disposal. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.

02 41 13 13-0012	SF Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving	1.72
02 41 13 13-0013	SF >3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving	2.19



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0014	SF		>6" To 8" By Hand, Break-up And Leave In Place Bituminous Paving	2.90	
02 41 13 13-0015	SF		Up To 3" By Hand, Break-up And Leave In Place Concrete Paving	2.16	
02 41 13 13-0016	SF		>3" To 6" By Hand, Break-up And Leave In Place Concrete Paving	2.75	
02 41 13 13-0017	SF		>6" To 8" By Hand, Break-up And Leave In Place Concrete Paving	3.62	
02 41 13 13-0018			By Machine, Break-up And Remove Bituminous And Concrete Paving <small>(02 41 13 13)</small>		
			<i>Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0001 for saw cutting.</i>		
02 41 13 13-0019	SY		Up To 3" By Machine, Break-up And Remove Bituminous Paving	15.43	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	4.63	
			<i>Note: (Around Existing Structures And Obstructions), Add</i>		
			<i>For Elevated Slab, Add</i>	7.72	
			<i>For >500 To 1,000, Deduct</i>	-1.54	
			<i>For >1,000 To 2,500, Deduct</i>	-2.78	
			<i>For >2,500 To 5,000, Deduct</i>	-4.01	
			<i>For >5,000 To 10,000, Deduct</i>	-5.25	
			<i>For >10,000, Deduct</i>	-6.48	
02 41 13 13-0020	SY		>3" To 6" By Machine, Break-up And Remove Bituminous Paving	21.07	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	6.32	
			<i>Note: (Around Existing Structures And Obstructions), Add</i>		
			<i>For Elevated Slab, Add</i>	10.54	
			<i>For >500 To 1,000, Deduct</i>	-2.11	
			<i>For >1,000 To 2,500, Deduct</i>	-3.79	
			<i>For >2,500 To 5,000, Deduct</i>	-5.48	
			<i>For >5,000 To 10,000, Deduct</i>	-7.16	
			<i>For >10,000, Deduct</i>	-8.85	
02 41 13 13-0021	SY		Up To 3" By Machine, Break-up And Remove Non Reinforced Concrete Paving	17.76	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	5.33	
			<i>Note: (Around Existing Structures And Obstructions), Add</i>		
			<i>For Elevated Slab, Add</i>	8.88	
			<i>For >500 To 1,000, Deduct</i>	-1.78	
			<i>For >1,000 To 2,500, Deduct</i>	-3.20	
			<i>For >2,500 To 5,000, Deduct</i>	-4.62	
			<i>For >5,000 To 10,000, Deduct</i>	-6.04	
			<i>For >10,000, Deduct</i>	-7.46	
02 41 13 13-0022	SY		>3" To 6" By Machine, Break-up And Remove Non Reinforced Concrete Paving	23.23	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	6.97	
			<i>Note: (Around Existing Structures And Obstructions), Add</i>		
			<i>For Elevated Slab, Add</i>	11.62	
			<i>For >500 To 1,000, Deduct</i>	-2.32	
			<i>For >1,000 To 2,500, Deduct</i>	-4.18	
			<i>For >2,500 To 5,000, Deduct</i>	-6.04	
			<i>For >5,000 To 10,000, Deduct</i>	-7.90	
			<i>For >10,000, Deduct</i>	-9.76	
02 41 13 13-0023	SY		Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving	23.57	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	7.07	
			<i>Note: (Around Existing Structures And Obstructions), Add</i>		
			<i>For Elevated Slab, Add</i>	11.79	
			<i>For >500 To 1,000, Deduct</i>	-2.36	
			<i>For >1,000 To 2,500, Deduct</i>	-4.24	
			<i>For >2,500 To 5,000, Deduct</i>	-6.13	
			<i>For >5,000 To 10,000, Deduct</i>	-8.01	
			<i>For >10,000, Deduct</i>	-9.90	
02 41 13 13-0024	SY		>3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving	30.53	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	9.16	
			<i>Note: (Around Existing Structures And Obstructions), Add</i>		
			<i>For Elevated Slab, Add</i>	15.27	
			<i>For >500 To 1,000, Deduct</i>	-3.05	
			<i>For >1,000 To 2,500, Deduct</i>	-5.50	
			<i>For >2,500 To 5,000, Deduct</i>	-7.94	
			<i>For >5,000 To 10,000, Deduct</i>	-10.38	
			<i>For >10,000, Deduct</i>	-12.82	
02 41 13 13-0025	SY		>6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving	50.60	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	15.18	
			<i>Note: (Around Existing Structures And Obstructions), Add</i>		
			<i>For Elevated Slab, Add</i>	25.30	
			<i>For >500 To 1,000, Deduct</i>	-5.06	
			<i>For >1,000 To 2,500, Deduct</i>	-9.11	
			<i>For >2,500 To 5,000, Deduct</i>	-13.16	
			<i>For >5,000 To 10,000, Deduct</i>	-17.20	
			<i>For >10,000, Deduct</i>	-21.25	
02 41 13 13-0026	SY		Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	25.55	
			<i>For Elevated Slab, Add</i>	12.78	
			<i>For >500 To 1,000, Deduct</i>	-2.56	
			<i>For >1,000 To 2,500, Deduct</i>	-4.60	
			<i>For >2,500 To 5,000, Deduct</i>	-6.64	
			<i>For >5,000 To 10,000, Deduct</i>	-8.69	
			<i>For >10,000, Deduct</i>	-10.73	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0027 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	32.86	
For Elevated Slab, Add	16.43	
For >500 To 1,000, Deduct	-3.29	
For >1,000 To 2,500, Deduct	-5.91	
For >2,500 To 5,000, Deduct	-8.54	
For >5,000 To 10,000, Deduct	-11.17	
For >10,000, Deduct	-13.80	
02 41 13 13-0028 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	58.74	
For Elevated Slab, Add	29.37	
For >500 To 1,000, Deduct	-5.87	
For >1,000 To 2,500, Deduct	-10.57	
For >2,500 To 5,000, Deduct	-15.27	
For >5,000 To 10,000, Deduct	-19.97	
For >10,000, Deduct	-24.67	
02 41 13 13-0029 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	76.66	
For Elevated Slab, Add	38.33	
For >500 To 1,000, Deduct	-7.67	
For >1,000 To 2,500, Deduct	-13.80	
For >2,500 To 5,000, Deduct	-19.93	
For >5,000 To 10,000, Deduct	-26.06	
For >10,000, Deduct	-32.20	
02 41 13 13-0030 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	100.22	
For Elevated Slab, Add	50.11	
For >500 To 1,000, Deduct	-10.02	
For >1,000 To 2,500, Deduct	-18.04	
For >2,500 To 5,000, Deduct	-26.06	
For >5,000 To 10,000, Deduct	-34.07	
For >10,000, Deduct	-42.09	
02 41 13 13-0031 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	121.62	
For Elevated Slab, Add	60.81	
For >500 To 1,000, Deduct	-12.16	
For >1,000 To 2,500, Deduct	-21.89	
For >2,500 To 5,000, Deduct	-31.62	
For >5,000 To 10,000, Deduct	-41.35	
For >10,000, Deduct	-51.08	
02 41 13 13-0032 By Hand, Break-up And Remove Bituminous And Concrete Paving <small>(02 41 13 13)</small>		
Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 13 13-0033 SF Up To 3" By Hand, Break-up And Remove Bituminous Paving.....	3.85	
02 41 13 13-0034 SF >3" To 6" By Hand, Break-up And Remove Bituminous Paving.....	5.07	
02 41 13 13-0035 SF >6" To 8" By Hand, Break-up And Remove Bituminous Paving.....	6.59	
02 41 13 13-0036 SF Up To 3" By Hand, Break-up And Remove Concrete Paving.....	4.81	
02 41 13 13-0037 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving.....	6.65	
02 41 13 13-0038 SF >6" To 8" By Hand, Break-up And Remove Concrete Paving.....	8.52	
02 41 13 13-0039 SF Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	6.75	
02 41 13 13-0040 SF >3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	9.31	
02 41 13 13-0041 SF >6" To 8" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	11.93	
02 41 13 13-0042 Grind Concrete <small>(02 41 13 13)</small>		
02 41 13 13-0043 EA Grind Existing Sidewalks, Up To 1/2" Depth, To Remove Ridges (Tripping Hazard).....	238.65	
Note: For each location up to 5' wide, feather up to 12" each direction.		
For >1/2" To 1" Depth Of Grinding, Add	35.80	
For >1" To 1-1/2" Depth Of Grinding, Add	59.66	
For Up To 5, Add	47.73	
For >5 To 10, Add	23.87	
For >25 To 50, Deduct	-23.87	
For >50 To 250, Deduct	-35.80	
For >250, Deduct	-47.73	
For Sidewalks >5', Add	23.87	
For Up To 12" Additional Feathering Per Side, Add	23.87	
02 41 13 15 Hydro Demolition <small>(02 41 13)</small>		
02 41 13 15-0001 Hydro Demolition Of Concrete Pavement <small>(02 41 13 15)</small>		
Note: Includes removal but excludes disposal of concrete.		
02 41 13 15-0002 SF Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	7.32	
02 41 13 15-0003 SF >2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	9.16	
02 41 13 15-0004 SF >4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	12.25	
02 41 13 15-0005 SF >6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	24.39	
02 41 16 Structure Demolition <small>(02 41)</small>		
02 41 16 13 Building Demolition <small>(02 41 16)</small>		



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0001	Building Interior Demolition (02 41 16 13) Note: Guttled and placed in truck or dumpsters. Based on overall floor area including space under demolished walls. Includes all soft stripping of materials (doors and frames, non-load bearing walls, carpet, moldings, drywall, tile, ceiling, ductwork, piping, light fixtures, etc.), accessible mechanical, electrical, plumbing, overhead sprinkler, fire protection and similar systems. Excludes lead, asbestos or other contaminants or load bearing walls, mechanical, plumbing or electrical equipment such as furnaces, water heaters, plumbing fixtures, sump pumps, switchgear or panel boards. Excludes hauling, dump fees, recycling charges, and/or salvage value.		
02 41 16 13-0002	GSF Residential Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck	7.95	
02 41 16 13-0003	GSF Up To 2,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck.....	12.02	
02 41 16 13-0004	GSF >2,000 To 10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck	9.83	
02 41 16 13-0005	GSF >10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck	8.74	
02 41 16 13-0006	Commercial And Residential Structures Demolition (02 41 16 13) Note: Complete demolition of structures. Includes site and building safety preparation, signage, dust control, scattered debris and other site clean-up, demolition equipment, and repair of any damaged adjacent property. Excludes (if required) utility disconnects and capping, underground or above ground storage tank removal, adjacent property protection, adjacent property cleanup, adjacent property work, site paving (asphalt or concrete), recycling fees, gutting/soft stripping (selective removal of materials for reuse) of building, site security, hazardous material abatement (including lead, asbestos, and PCBs), surveys, clearing and grubbing of site, cranes, traffic control, elevator removal, major mechanical equipment such as boilers, chillers, cooling towers, Etc., excavation or backfill, foundations, basement floor, slab-on grade, temporary fencing (installation and removal), hauling, disposal and dump fees for all debris (site and building), earthwork and erosion control. Pricing is by Hundred Cubic Foot (CCF) of complete building volume being demolished. For computing building volume, height is computed at actual floor-to-floor dimensions with attic and basement each computed at half-height, width and length are actual dimensions. Excludes salvage value.		
02 41 16 13-0007	Steel Framed Building Demolition (02 41 16 13-0006) Note: Includes masonry partitions and concrete decks.		
02 41 16 13-0008	CCF By Pneumatic Tools/Hand, Steel Framed Building Demolition	73.52	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15'; Deduct	-5.51	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18'; Deduct	-11.03	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21'; Deduct	-16.54	
	For Up To 500, Add	22.06	
	For >500 To 1,000, Add	14.70	
	For >1,000 To 2,000, Add	7.35	
	For Volume Of Area Within 15' To An Adjacent Building, Add	24.26	
	For No Interior Partitions, Deduct	-18.38	
02 41 16 13-0009	CCF By Machine, Steel Framed Building Demolition.....	45.85	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15'; Deduct	-3.44	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18'; Deduct	-6.88	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21'; Deduct	-10.32	
	For Up To 500, Add	13.76	
	For >500 To 1,000, Add	9.17	
	For >1,000 To 2,000, Add	4.59	
	For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	6.88	
	For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	11.46	
	For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	16.05	
	For Volume Of Area Within 15' To An Adjacent Building, Add	15.13	
	For No Interior Partitions, Deduct	-11.46	
02 41 16 13-0010	Reinforced Concrete Building Demolition (02 41 16 13-0006)		
02 41 16 13-0011	CCF By Pneumatic Tools/Hand, Reinforced Concrete Building Demolition	92.26	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15'; Deduct	-6.92	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18'; Deduct	-13.84	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21'; Deduct	-20.76	
	For Up To 500, Add	27.68	
	For >500 To 1,000, Add	18.45	
	For >1,000 To 2,000, Add	9.23	
	For Volume Of Area Within 15' To An Adjacent Building, Add	30.45	
	For No Interior Partitions, Deduct	-23.07	
02 41 16 13-0012	CCF By Machine, Reinforced Concrete Building Demolition.....	60.53	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15'; Deduct	-4.54	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18'; Deduct	-9.08	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21'; Deduct	-13.62	
	For Up To 500, Add	18.16	
	For >500 To 1,000, Add	12.11	
	For >1,000 To 2,000, Add	6.05	
	For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	9.08	
	For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	15.13	
	For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	21.19	
	For Volume Of Area Within 15' To An Adjacent Building, Add	19.97	
	For No Interior Partitions, Deduct	-15.13	
02 41 16 13-0013	Masonry Construction Building Demolition (02 41 16 13-0006)		
02 41 16 13-0014	CCF By Pneumatic Tools/Hand, Masonry Construction Building Demolition	64.84	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15'; Deduct	-4.86	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18'; Deduct	-9.73	
	For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21'; Deduct	-14.59	
	For Up To 500, Add	19.45	
	For >500 To 1,000, Add	12.97	
	For >1,000 To 2,000, Add	6.48	
	For Volume Of Area Within 15' To An Adjacent Building, Add	21.40	
	For No Interior Partitions, Deduct	-16.21	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0015 CCF By Machine, Masonry Construction Building Demolition.....	41.14	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-3.09	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-6.17	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-9.26	
For Up To 500, Add	12.34	
For >500 To 1,000, Add	8.23	
For >1,000 To 2,000, Add	4.11	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	6.17	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	10.29	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	14.40	
For Volume Of Area Within 15' To An Adjacent Building, Add	13.58	
For No Interior Partitions, Deduct	-10.29	
02 41 16 13-0016 Wood Frame Construction Building Demolition (02 41 16 13-0006)		
02 41 16 13-0017 CCF By Pneumatic Tools/Hand, Wood Frame Construction Building Demolition	56.35	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-4.23	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-8.45	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-12.68	
For Up To 500, Add	16.91	
For >500 To 1,000, Add	11.27	
For >1,000 To 2,000, Add	5.64	
For Volume Of Area Within 15' To An Adjacent Building, Add	18.60	
For No Interior Partitions, Deduct	-14.09	
02 41 16 13-0018 CCF By Machine, Wood Frame Construction Building Demolition	35.20	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-2.64	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-5.28	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-7.92	
For Up To 500, Add	10.56	
For >500 To 1,000, Add	7.04	
For >1,000 To 2,000, Add	3.52	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	5.28	
For Volume Of Area Within 15' To An Adjacent Building, Add	11.62	
For No Interior Partitions, Deduct	-8.80	
02 41 16 13-0019 Sorting Of Material Debris For Recycling Prior To Hauling Off (02 41 16 13-0006)		
Note: Per building volume.		
02 41 16 13-0020 CCF Sorting Of Material Debris For Recycling Prior To Hauling Off	9.46	
For Up To 500, Add	2.84	
For >500 To 1,000, Add	1.89	
For >1,000 To 2,000, Add	0.95	
02 41 16 13-0021 Foundation Demolition (02 41 16 13)		
Note: Excludes earthwork.		
02 41 16 13-0022 Concrete Foundation Demolition (02 41 16 13-0021)		
02 41 16 13-0023 CF Non Reinforced Concrete Foundation Demolition.....	14.45	
For >135 To 405, Deduct	-1.26	
For >405 To 810, Deduct	-2.53	
For >810 To 2025, Deduct	-3.61	
For >2025, Deduct	-5.78	
02 41 16 13-0024 CF Reinforced Concrete Foundation Demolition	17.34	
For >135 To 405, Deduct	-1.52	
For >405 To 810, Deduct	-3.03	
For >810 To 2025, Deduct	-4.34	
For >2025, Deduct	-6.94	
02 41 16 13-0025 Concrete Foundation Wall Demolition (02 41 16 13-0021)		
02 41 16 13-0026 SF 4" Thick Non Reinforced Concrete Foundation Wall Demolition.....	6.19	
For >500 To 2,000, Deduct	-0.46	
For >2,000 To 6,000, Deduct	-1.24	
For >6,000 To 8,000, Deduct	-2.17	
For >8,000, Deduct	-3.40	
02 41 16 13-0027 SF 6" Thick Non Reinforced Concrete Foundation Wall Demolition	8.26	
For >500 To 2,000, Deduct	-0.62	
For >2,000 To 6,000, Deduct	-1.65	
For >6,000 To 8,000, Deduct	-2.89	
For >8,000, Deduct	-4.54	
02 41 16 13-0028 SF 8" Thick Non Reinforced Concrete Foundation Wall Demolition	10.32	
For >500 To 2,000, Deduct	-0.77	
For >2,000 To 6,000, Deduct	-2.06	
For >6,000 To 8,000, Deduct	-3.61	
For >8,000, Deduct	-5.68	
02 41 16 13-0029 SF 10" Thick Non Reinforced Concrete Foundation Wall Demolition	12.38	
For >500 To 2,000, Deduct	-0.93	
For >2,000 To 6,000, Deduct	-2.48	
For >6,000 To 8,000, Deduct	-4.33	
For >8,000, Deduct	-6.81	
02 41 16 13-0030 SF 12" Thick Non Reinforced Concrete Foundation Wall Demolition	14.45	
For >500 To 2,000, Deduct	-1.08	
For >2,000 To 6,000, Deduct	-2.89	
For >6,000 To 8,000, Deduct	-5.06	
For >8,000, Deduct	-7.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0031 SF 16" Thick Non Reinforced Concrete Foundation Wall Demolition.....	16.51	
<i>For >500 To 2,000, Deduct</i>	-1.24	
<i>For >2,000 To 6,000, Deduct</i>	-3.30	
<i>For >6,000 To 8,000, Deduct</i>	-5.78	
<i>For >8,000, Deduct</i>	-9.08	
02 41 16 13-0032 SF 4" Thick Reinforced Concrete Foundation Wall Demolition	7.43	
<i>For >500 To 2,000, Deduct</i>	-0.56	
<i>For >2,000 To 6,000, Deduct</i>	-1.49	
<i>For >6,000 To 8,000, Deduct</i>	-2.60	
<i>For >8,000, Deduct</i>	-4.09	
02 41 16 13-0033 SF 6" Thick Reinforced Concrete Foundation Wall Demolition	9.91	
<i>For >500 To 2,000, Deduct</i>	-0.74	
<i>For >2,000 To 6,000, Deduct</i>	-1.98	
<i>For >6,000 To 8,000, Deduct</i>	-3.47	
<i>For >8,000, Deduct</i>	-5.45	
02 41 16 13-0034 SF 8" Thick Reinforced Concrete Foundation Wall Demolition	12.38	
<i>For >500 To 2,000, Deduct</i>	-0.93	
<i>For >2,000 To 6,000, Deduct</i>	-2.48	
<i>For >6,000 To 8,000, Deduct</i>	-4.33	
<i>For >8,000, Deduct</i>	-6.81	
02 41 16 13-0035 SF 10" Thick Reinforced Concrete Foundation Wall Demolition	14.65	
<i>For >500 To 2,000, Deduct</i>	-1.10	
<i>For >2,000 To 6,000, Deduct</i>	-2.93	
<i>For >6,000 To 8,000, Deduct</i>	-5.13	
<i>For >8,000, Deduct</i>	-8.06	
02 41 16 13-0036 SF 12" Thick Reinforced Concrete Foundation Wall Demolition	17.34	
<i>For >500 To 2,000, Deduct</i>	-1.30	
<i>For >2,000 To 6,000, Deduct</i>	-3.47	
<i>For >6,000 To 8,000, Deduct</i>	-6.07	
<i>For >8,000, Deduct</i>	-9.54	
02 41 16 13-0037 SF 16" Thick Reinforced Concrete Foundation Wall Demolition	19.81	
<i>For >500 To 2,000, Deduct</i>	-1.49	
<i>For >2,000 To 6,000, Deduct</i>	-3.96	
<i>For >6,000 To 8,000, Deduct</i>	-6.93	
<i>For >8,000, Deduct</i>	-10.90	
02 41 16 13-0038 Concrete Block Foundation Wall Demolition (02 41 16 13-0021)		
02 41 16 13-0039 SF 4" Thick Non Reinforced Concrete Block Foundation Wall Demolition	4.54	
<i>For >500 To 2,000, Deduct</i>	-0.34	
<i>For >2,000 To 6,000, Deduct</i>	-0.91	
<i>For >6,000 To 8,000, Deduct</i>	-1.59	
<i>For >8,000, Deduct</i>	-2.50	
02 41 16 13-0040 SF 6" Thick Non Reinforced Concrete Block Foundation Wall Demolition	4.85	
<i>For >500 To 2,000, Deduct</i>	-0.36	
<i>For >2,000 To 6,000, Deduct</i>	-0.97	
<i>For >6,000 To 8,000, Deduct</i>	-1.70	
<i>For >8,000, Deduct</i>	-2.67	
02 41 16 13-0041 SF 8" Thick Non Reinforced Concrete Block Foundation Wall Demolition	5.47	
<i>For >500 To 2,000, Deduct</i>	-0.41	
<i>For >2,000 To 6,000, Deduct</i>	-1.09	
<i>For >6,000 To 8,000, Deduct</i>	-1.91	
<i>For >8,000, Deduct</i>	-3.01	
02 41 16 13-0042 SF 10" Thick Non Reinforced Concrete Block Foundation Wall Demolition	6.29	
<i>For >500 To 2,000, Deduct</i>	-0.47	
<i>For >2,000 To 6,000, Deduct</i>	-1.26	
<i>For >6,000 To 8,000, Deduct</i>	-2.20	
<i>For >8,000, Deduct</i>	-3.46	
02 41 16 13-0043 SF 12" Thick Non Reinforced Concrete Block Foundation Wall Demolition	7.01	
<i>For >500 To 2,000, Deduct</i>	-0.53	
<i>For >2,000 To 6,000, Deduct</i>	-1.40	
<i>For >6,000 To 8,000, Deduct</i>	-2.45	
<i>For >8,000, Deduct</i>	-3.86	
02 41 16 13-0044 SF 16" Thick Non Reinforced Concrete Block Foundation Wall Demolition	8.78	
<i>For >500 To 2,000, Deduct</i>	-0.66	
<i>For >2,000 To 6,000, Deduct</i>	-1.76	
<i>For >6,000 To 8,000, Deduct</i>	-3.07	
<i>For >8,000, Deduct</i>	-4.83	
02 41 16 13-0045 SF 4" Thick Reinforced Concrete Block Foundation Wall Demolition.....	5.44	
<i>For >500 To 2,000, Deduct</i>	-0.41	
<i>For >2,000 To 6,000, Deduct</i>	-1.09	
<i>For >6,000 To 8,000, Deduct</i>	-1.90	
<i>For >8,000, Deduct</i>	-2.99	
02 41 16 13-0046 SF 6" Thick Reinforced Concrete Block Foundation Wall Demolition.....	5.82	
<i>For >500 To 2,000, Deduct</i>	-0.44	
<i>For >2,000 To 6,000, Deduct</i>	-1.16	
<i>For >6,000 To 8,000, Deduct</i>	-2.04	
<i>For >8,000, Deduct</i>	-3.20	
02 41 16 13-0047 SF 8" Thick Reinforced Concrete Block Foundation Wall Demolition.....	6.56	
<i>For >500 To 2,000, Deduct</i>	-0.49	
<i>For >2,000 To 6,000, Deduct</i>	-1.31	
<i>For >6,000 To 8,000, Deduct</i>	-2.30	
<i>For >8,000, Deduct</i>	-3.61	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0048 SF 10" Thick Reinforced Concrete Block Foundation Wall Demolition.....	7.56	
For >500 To 2,000, Deduct	-0.57	
For >2,000 To 6,000, Deduct	-1.51	
For >6,000 To 8,000, Deduct	-2.65	
For >8,000, Deduct	-4.16	
02 41 16 13-0049 SF 12" Thick Reinforced Concrete Block Foundation Wall Demolition.....	8.43	
For >500 To 2,000, Deduct	-0.63	
For >2,000 To 6,000, Deduct	-1.69	
For >6,000 To 8,000, Deduct	-2.95	
For >8,000, Deduct	-4.64	
02 41 16 13-0050 SF 16" Thick Reinforced Concrete Block Foundation Wall Demolition.....	10.53	
For >500 To 2,000, Deduct	-0.79	
For >2,000 To 6,000, Deduct	-2.11	
For >6,000 To 8,000, Deduct	-3.69	
For >8,000, Deduct	-5.79	
02 41 16 13-0051 Brick Foundation Wall Demolition (02 41 16 13-0021)		
02 41 16 13-0052 SF 4" Thick Brick Foundation Wall Demolition	4.54	
For >500 To 2,000, Deduct	-0.34	
For >2,000 To 6,000, Deduct	-0.91	
For >6,000 To 8,000, Deduct	-1.59	
For >8,000, Deduct	-2.50	
02 41 16 13-0053 SF 6" Thick Brick Foundation Wall Demolition	4.85	
For >500 To 2,000, Deduct	-0.36	
For >2,000 To 6,000, Deduct	-0.97	
For >6,000 To 8,000, Deduct	-1.70	
For >8,000, Deduct	-2.67	
02 41 16 13-0054 SF 8" Thick Brick Foundation Wall Demolition	5.47	
For >500 To 2,000, Deduct	-0.41	
For >2,000 To 6,000, Deduct	-1.09	
For >6,000 To 8,000, Deduct	-1.91	
For >8,000, Deduct	-3.01	
02 41 16 13-0055 SF 10" Thick Brick Foundation Wall Demolition	6.29	
For >500 To 2,000, Deduct	-0.47	
For >2,000 To 6,000, Deduct	-1.26	
For >6,000 To 8,000, Deduct	-2.20	
For >8,000, Deduct	-3.46	
02 41 16 13-0056 SF 12" Thick Brick Foundation Wall Demolition	7.01	
For >500 To 2,000, Deduct	-0.53	
For >2,000 To 6,000, Deduct	-1.40	
For >6,000 To 8,000, Deduct	-2.45	
For >8,000, Deduct	-3.86	
02 41 16 13-0057 SF 16" Thick Brick Foundation Wall Demolition	8.78	
For >500 To 2,000, Deduct	-0.66	
For >2,000 To 6,000, Deduct	-1.76	
For >6,000 To 8,000, Deduct	-3.07	
For >8,000, Deduct	-4.83	
02 41 16 13-0058 Stone Foundation Demolition (02 41 16 13-0021)		
02 41 16 13-0059 CF Stone Footing Or Foundation Wall Demolition.....	14.45	
For >135 To 405, Deduct	-1.26	
For >405 To 810, Deduct	-2.53	
For >810 To 2025, Deduct	-3.61	
For >2025, Deduct	-5.78	
02 41 16 13-0060 Other Foundation Demolition (02 41 16 13-0021)		
02 41 16 13-0061 CF Concrete Footing For Fence, Gate Or Playground Equipment Post, Etc. Demolition	15.00	
Note: Includes excavation.		
For >135 To 405, Deduct	-1.31	
For >405 To 810, Deduct	-2.63	
For >810 To 2025, Deduct	-3.75	
For >2025, Deduct	-6.00	
02 41 19 Selective Demolition (02 41)		
02 41 19 13 Selective Building Demolition (02 41 19)		
02 41 19 13-0001 Saw Cutting (02 41 19 13)		
Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0002 LF Bituminous Paving Up To 4" Depth, Saw Cut.....	2.15	
For Each Additional Pass (Depth To 3"), Add	0.84	
For >250, Deduct	-0.21	
02 41 19 13-0003 LF Brick Masonry Up To 4" Depth, Saw Cut.....	8.19	
For Each Additional Pass (Depth To 3"), Add	3.25	
For >250, Deduct	-0.81	
02 41 19 13-0004 LF Concrete Block Up To 4" Depth, Saw Cut	7.40	
For Each Additional Pass (Depth To 3"), Add	2.93	
For >250, Deduct	-0.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0005 LF Non Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut	2.46	
<i>For Each Additional Pass (Depth To 3"), Add</i>	0.95	
<i>For >250, Deduct</i>	-0.24	
02 41 19 13-0006 LF Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut	3.25	
<i>For Each Additional Pass (Depth To 3"), Add</i>	1.26	
<i>For >250, Deduct</i>	-0.31	
02 41 19 13-0007 LF Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut	5.42	
<i>For Each Additional Pass (Depth To 3"), Add</i>	2.13	
<i>For >250, Deduct</i>	-0.53	
02 41 19 13-0008 LF Plain Concrete Walls Up To 4" Depth, Saw Cut	10.49	
<i>For Each Additional Pass (Depth To 3"), Add</i>	4.16	
<i>For >250, Deduct</i>	-1.04	
02 41 19 13-0009 LF Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth.....	14.09	
<i>For Each Additional Pass (Depth To 3"), Add</i>	5.60	
<i>For >250, Deduct</i>	-1.40	
02 41 19 13-0010 LF Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets.....	2.92	
<i>For Each Additional Pass (Depth To 3"), Add</i>	1.05	
<i>For >250, Deduct</i>	-0.25	
02 41 19 13-0011 LF Igneous Stone Pavements Up To 4" Depth, Saw Cut.....	7.42	
<i>For Each Additional Pass (Depth To 3"), Add</i>	2.94	
<i>For >250, Deduct</i>	-0.73	
02 41 19 13-0012 LF Sedimentary Stone Pavements Up To 4" Depth, Saw Cut	7.42	
<i>For Each Additional Pass (Depth To 3"), Add</i>	2.94	
<i>For >250, Deduct</i>	-0.73	
02 41 19 13-0013 LF Metamorphic Stone Pavements Up To 4" Depth, Saw Cut.....	7.42	
<i>For Each Additional Pass (Depth To 3"), Add</i>	2.94	
<i>For >250, Deduct</i>	-0.73	
02 41 19 13-0014 LF Terrazzo Stone Pavements Up To 4" Depth, Saw Cut	7.42	
<i>For Each Additional Pass (Depth To 3"), Add</i>	2.94	
<i>For >250, Deduct</i>	-0.73	
02 41 19 13-0015 EA Saw Cut Minimum Charge.....	1,039.51	
Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
 02 41 19 13-0016 Torch Cutting <small>(02 41 19 13)</small>		
Note: Includes grinding edge		
02 41 19 13-0017 LF Up To 1/2", Torch Cut Steel Plate.....	3.01	
02 41 19 13-0018 LF >1/2" To 1" Thick, Torch Cut Steel Plate	6.03	
02 41 19 13-0019 LF >1" To 1-1/2" Thick, Torch Cut Steel Plate	9.04	
02 41 19 13-0020 LF >1-1/2" To 2" Thick, Torch Cut Steel Plate	12.06	
02 41 19 13-0021 LF >2" To 2-1/2" Thick, Torch Cut Steel Plate	15.07	
02 41 19 13-0022 LF >2-1/2" To 3" Thick, Torch Cut Steel Plate	18.09	
02 41 19 13-0023 EA Torch Cutting Minimum Charge.....	985.74	
Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
 02 41 19 13-0024 Drilling In Existing Materials <small>(02 41 19 13)</small>		
Note: Includes drill bit wear, water, layout, set-up and clean-up.		
02 41 19 13-0025 Concrete Core Drilling <small>(02 41 19 13-0024)</small>		
02 41 19 13-0026 Up To 4" Thick Concrete Core Drilling <small>(02 41 19 13-0025)</small>		
02 41 19 13-0027 EA Drill 1" Diameter Core In Up To 4" Concrete.....	40.24	
<i>For Horizontal Cores, Add</i>	7.96	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	15.92	
02 41 19 13-0028 EA Drill 1-1/2" Diameter Core In Up To 4" Concrete	44.65	
<i>For Horizontal Cores, Add</i>	8.84	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	17.69	
02 41 19 13-0029 EA Drill 2" Diameter Core In Up To 4" Concrete.....	49.57	
<i>For Horizontal Cores, Add</i>	9.83	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	19.66	
02 41 19 13-0030 EA Drill 3" Diameter Core In Up To 4" Concrete.....	70.78	
<i>For Horizontal Cores, Add</i>	14.04	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	28.08	
02 41 19 13-0031 EA Drill 4" Diameter Core In Up To 4" Concrete.....	94.86	
<i>For Horizontal Cores, Add</i>	18.82	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	37.63	
02 41 19 13-0032 EA Drill 6" Diameter Core In Up To 4" Concrete.....	106.29	
<i>For Horizontal Cores, Add</i>	21.06	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	42.12	
02 41 19 13-0033 EA Drill 8" Diameter Core In Up To 4" Concrete.....	169.85	
<i>For Horizontal Cores, Add</i>	33.70	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	67.40	
02 41 19 13-0034 EA Drill 10" Diameter Core In Up To 4" Concrete.....	212.46	
<i>For Horizontal Cores, Add</i>	42.12	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	84.25	
02 41 19 13-0035 EA Drill 12" Diameter Core In Up To 4" Concrete.....	247.94	
<i>For Horizontal Cores, Add</i>	49.15	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	98.30	
02 41 19 13-0036 EA Drill 14" Diameter Core In Up To 4" Concrete.....	283.42	
<i>For Horizontal Cores, Add</i>	56.16	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	112.32	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0037 EA Drill 18" Diameter Core In Up To 4" Concrete.....	319.26	
For Horizontal Cores, Add	63.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	126.36	
02 41 19 13-0038 >4" To 6" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0039 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	57.52	
For Horizontal Cores, Add	11.37	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.74	
02 41 19 13-0040 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	63.83	
For Horizontal Cores, Add	12.63	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.27	
02 41 19 13-0041 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	70.85	
For Horizontal Cores, Add	14.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.08	
02 41 19 13-0042 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	85.15	
For Horizontal Cores, Add	16.85	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.70	
02 41 19 13-0043 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	106.51	
For Horizontal Cores, Add	21.06	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	42.12	
02 41 19 13-0044 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	141.90	
For Horizontal Cores, Add	28.08	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	56.16	
02 41 19 13-0045 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	212.66	
For Horizontal Cores, Add	42.12	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	84.25	
02 41 19 13-0046 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	248.49	
For Horizontal Cores, Add	49.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	98.30	
02 41 19 13-0047 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	284.10	
For Horizontal Cores, Add	56.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	112.32	
02 41 19 13-0048 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	319.90	
For Horizontal Cores, Add	63.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	126.36	
02 41 19 13-0049 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	356.21	
For Horizontal Cores, Add	70.20	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	140.41	
02 41 19 13-0050 >6" To 8" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0051 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	63.46	
For Horizontal Cores, Add	12.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.02	
02 41 19 13-0052 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	70.41	
For Horizontal Cores, Add	13.90	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.80	
02 41 19 13-0053 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	78.13	
For Horizontal Cores, Add	15.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	30.89	
02 41 19 13-0054 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	92.50	
For Horizontal Cores, Add	18.25	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	36.51	
02 41 19 13-0055 EA Drill 4" Diameter Core In >6" To 8" Concrete.....	120.96	
For Horizontal Cores, Add	23.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	47.74	
02 41 19 13-0056 EA Drill 6" Diameter Core In >6" To 8" Concrete.....	170.50	
For Horizontal Cores, Add	33.70	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	67.40	
02 41 19 13-0057 EA Drill 8" Diameter Core In >6" To 8" Concrete.....	283.53	
For Horizontal Cores, Add	56.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	112.32	
02 41 19 13-0058 EA Drill 10" Diameter Core In >6" To 8" Concrete.....	319.55	
For Horizontal Cores, Add	63.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	126.36	
02 41 19 13-0059 EA Drill 12" Diameter Core In >6" To 8" Concrete.....	355.41	
For Horizontal Cores, Add	70.20	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	140.41	
02 41 19 13-0060 EA Drill 14" Diameter Core In >6" To 8" Concrete.....	391.44	
For Horizontal Cores, Add	77.21	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	154.42	
02 41 19 13-0061 EA Drill 18" Diameter Core In >6" To 8" Concrete.....	428.25	
For Horizontal Cores, Add	84.25	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	168.50	
02 41 19 13-0062 >8" To 10" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0063 EA Drill 1" Diameter Core In >8" To 10" Concrete.....	75.06	
For Horizontal Cores, Add	14.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.57	
02 41 19 13-0064 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	83.27	
For Horizontal Cores, Add	16.43	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0065 EA Drill 2" Diameter Core In >8" To 10" Concrete.....	92.40	
<i>For Horizontal Cores, Add</i>	18.25	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.51	
02 41 19 13-0066 EA Drill 3" Diameter Core In >8" To 10" Concrete.....	106.87	
<i>For Horizontal Cores, Add</i>	21.06	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	42.12	
02 41 19 13-0067 EA Drill 4" Diameter Core In >8" To 10" Concrete.....	121.38	
<i>For Horizontal Cores, Add</i>	23.87	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	47.74	
02 41 19 13-0068 EA Drill 6" Diameter Core In >8" To 10" Concrete.....	171.01	
<i>For Horizontal Cores, Add</i>	33.70	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	67.40	
02 41 19 13-0069 EA Drill 8" Diameter Core In >8" To 10" Concrete.....	284.22	
<i>For Horizontal Cores, Add</i>	56.16	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	112.32	
02 41 19 13-0070 EA Drill 10" Diameter Core In >8" To 10" Concrete.....	320.46	
<i>For Horizontal Cores, Add</i>	63.18	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	126.36	
02 41 19 13-0071 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	356.43	
<i>For Horizontal Cores, Add</i>	70.19	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	140.38	
02 41 19 13-0072 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	392.82	
<i>For Horizontal Cores, Add</i>	77.21	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	154.42	
02 41 19 13-0073 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	429.97	
<i>For Horizontal Cores, Add</i>	84.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	168.46	
02 41 19 13-0074 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0075 EA Drill 1" Diameter Core In >10" To 12" Concrete.....	80.99	
<i>For Horizontal Cores, Add</i>	15.92	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.85	
02 41 19 13-0076 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	89.83	
<i>For Horizontal Cores, Add</i>	17.69	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	35.38	
02 41 19 13-0077 EA Drill 2" Diameter Core In >10" To 12" Concrete.....	99.66	
<i>For Horizontal Cores, Add</i>	19.66	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.32	
02 41 19 13-0078 EA Drill 3" Diameter Core In >10" To 12" Concrete.....	107.20	
<i>For Horizontal Cores, Add</i>	21.06	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	42.12	
02 41 19 13-0079 EA Drill 4" Diameter Core In >10" To 12" Concrete.....	142.87	
<i>For Horizontal Cores, Add</i>	28.08	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	56.16	
02 41 19 13-0080 EA Drill 6" Diameter Core In >10" To 12" Concrete.....	185.57	
<i>For Horizontal Cores, Add</i>	36.51	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	73.02	
02 41 19 13-0081 EA Drill 8" Diameter Core In >10" To 12" Concrete.....	298.98	
<i>For Horizontal Cores, Add</i>	58.97	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.94	
02 41 19 13-0082 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	321.37	
<i>For Horizontal Cores, Add</i>	63.18	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	126.36	
02 41 19 13-0083 EA Drill 12" Diameter Core In >10" To 12" Concrete.....	371.67	
<i>For Horizontal Cores, Add</i>	73.02	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	146.04	
02 41 19 13-0084 >12" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0085 IN Drill 1" Diameter Core In >12" Concrete.....	9.84	
<i>For Horizontal Cores, Add</i>	1.95	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.89	
02 41 19 13-0086 IN Drill 1-1/2" Diameter Core In >12" Concrete.....	10.92	
<i>For Horizontal Cores, Add</i>	2.16	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.32	
02 41 19 13-0087 IN Drill 2" Diameter Core In >12" Concrete.....	12.12	
<i>For Horizontal Cores, Add</i>	2.40	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.80	
02 41 19 13-0088 IN Drill 3" Diameter Core In >12" Concrete.....	13.31	
<i>For Horizontal Cores, Add</i>	2.63	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	5.26	
02 41 19 13-0089 IN Drill 4" Diameter Core In >12" Concrete.....	17.74	
<i>For Horizontal Cores, Add</i>	3.51	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	7.02	
02 41 19 13-0090 IN Drill 6" Diameter Core In >12" Concrete.....	23.09	
<i>For Horizontal Cores, Add</i>	4.57	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	9.14	
02 41 19 13-0091 IN Drill 8" Diameter Core In >12" Concrete.....	37.23	
<i>For Horizontal Cores, Add</i>	7.38	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.76	
02 41 19 13-0092 IN Drill 10" Diameter Core In >12" Concrete.....	40.12	
<i>For Horizontal Cores, Add</i>	7.93	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	15.86	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0093 IN Drill 12" Diameter Core In >12" Concrete	46.21	
For Horizontal Cores, Add	9.13	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.26	
02 41 19 13-0094 Brick/Concrete Block Core Drilling (02 41 19 13-0024)		
02 41 19 13-0095 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0096 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block	32.28	
For Horizontal Cores, Add	6.37	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.74	
02 41 19 13-0097 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block	35.81	
For Horizontal Cores, Add	7.08	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.15	
02 41 19 13-0098 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block	39.75	
For Horizontal Cores, Add	7.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.73	
02 41 19 13-0099 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block	56.75	
For Horizontal Cores, Add	11.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.47	
02 41 19 13-0100 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block	76.04	
For Horizontal Cores, Add	15.05	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	30.10	
02 41 19 13-0101 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block	85.22	
For Horizontal Cores, Add	16.85	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.70	
02 41 19 13-0102 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block	136.15	
For Horizontal Cores, Add	26.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	53.92	
02 41 19 13-0103 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block	170.34	
For Horizontal Cores, Add	33.70	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	67.40	
02 41 19 13-0104 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block	198.79	
For Horizontal Cores, Add	39.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.64	
02 41 19 13-0105 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block	227.26	
For Horizontal Cores, Add	44.93	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	89.86	
02 41 19 13-0106 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block	256.08	
For Horizontal Cores, Add	50.54	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	101.08	
02 41 19 13-0107 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0108 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block	46.14	
For Horizontal Cores, Add	9.10	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.19	
02 41 19 13-0109 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block	51.19	
For Horizontal Cores, Add	10.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.21	
02 41 19 13-0110 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block	56.81	
For Horizontal Cores, Add	11.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.46	
02 41 19 13-0111 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block	68.30	
For Horizontal Cores, Add	13.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.96	
02 41 19 13-0112 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block	85.44	
For Horizontal Cores, Add	16.85	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.70	
02 41 19 13-0113 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block	113.82	
For Horizontal Cores, Add	22.47	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	44.93	
02 41 19 13-0114 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block	170.54	
For Horizontal Cores, Add	33.70	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	67.40	
02 41 19 13-0115 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block	199.34	
For Horizontal Cores, Add	39.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.64	
02 41 19 13-0116 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block	227.94	
For Horizontal Cores, Add	44.93	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	89.86	
02 41 19 13-0117 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block	256.72	
For Horizontal Cores, Add	50.54	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	101.08	
02 41 19 13-0118 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block	286.01	
For Horizontal Cores, Add	56.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	112.33	
02 41 19 13-0119 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0120 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block	50.94	
For Horizontal Cores, Add	10.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0121 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block.....	56.51	
<i>For Horizontal Cores, Add</i>	11.12	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.24	
02 41 19 13-0122 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block.....	62.69	
<i>For Horizontal Cores, Add</i>	12.36	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.72	
02 41 19 13-0123 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block.....	74.24	
<i>For Horizontal Cores, Add</i>	14.60	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.20	
02 41 19 13-0124 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block.....	97.09	
<i>For Horizontal Cores, Add</i>	19.09	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	38.19	
02 41 19 13-0125 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block.....	136.80	
<i>For Horizontal Cores, Add</i>	26.96	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	53.92	
02 41 19 13-0126 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block.....	227.37	
<i>For Horizontal Cores, Add</i>	44.93	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	89.86	
02 41 19 13-0127 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block.....	256.37	
<i>For Horizontal Cores, Add</i>	50.54	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	101.08	
02 41 19 13-0128 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block.....	285.21	
<i>For Horizontal Cores, Add</i>	56.16	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	112.33	
02 41 19 13-0129 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block.....	314.23	
<i>For Horizontal Cores, Add</i>	61.77	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	123.54	
02 41 19 13-0130 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block.....	344.00	
<i>For Horizontal Cores, Add</i>	67.40	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	134.80	
02 41 19 13-0131 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0132 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block.....	60.27	
<i>For Horizontal Cores, Add</i>	11.83	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.66	
02 41 19 13-0133 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block.....	66.84	
<i>For Horizontal Cores, Add</i>	13.14	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	26.28	
02 41 19 13-0134 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block.....	74.14	
<i>For Horizontal Cores, Add</i>	14.60	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.20	
02 41 19 13-0135 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block.....	85.80	
<i>For Horizontal Cores, Add</i>	16.85	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.70	
02 41 19 13-0136 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block.....	97.51	
<i>For Horizontal Cores, Add</i>	19.09	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	38.19	
02 41 19 13-0137 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block.....	137.31	
<i>For Horizontal Cores, Add</i>	26.96	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	53.92	
02 41 19 13-0138 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block.....	228.06	
<i>For Horizontal Cores, Add</i>	44.93	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	89.86	
02 41 19 13-0139 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block.....	257.28	
<i>For Horizontal Cores, Add</i>	50.54	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	101.08	
02 41 19 13-0140 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block.....	286.24	
<i>For Horizontal Cores, Add</i>	56.15	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	112.30	
02 41 19 13-0141 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block.....	315.61	
<i>For Horizontal Cores, Add</i>	61.77	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	123.54	
02 41 19 13-0142 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block.....	345.74	
<i>For Horizontal Cores, Add</i>	67.38	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	134.76	
02 41 19 13-0143 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0144 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block.....	65.07	
<i>For Horizontal Cores, Add</i>	12.74	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	25.48	
02 41 19 13-0145 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block.....	72.14	
<i>For Horizontal Cores, Add</i>	14.15	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	28.31	
02 41 19 13-0146 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block.....	80.00	
<i>For Horizontal Cores, Add</i>	15.73	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.45	
02 41 19 13-0147 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block.....	86.13	
<i>For Horizontal Cores, Add</i>	16.85	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.70	
02 41 19 13-0148 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block.....	114.79	
<i>For Horizontal Cores, Add</i>	22.47	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	44.93	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0149 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block	149.06	
For Horizontal Cores, Add	29.21	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	58.42	
02 41 19 13-0150 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block	240.01	
For Horizontal Cores, Add	47.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	94.36	
02 41 19 13-0151 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block	258.19	
For Horizontal Cores, Add	50.54	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	101.08	
02 41 19 13-0152 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block	298.64	
For Horizontal Cores, Add	58.41	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	116.83	
02 41 19 13-0153 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0154 IN Drill 1" Diameter Core In >12" Brick/Concrete Block.....	7.90	
For Horizontal Cores, Add	1.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.12	
02 41 19 13-0155 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block	8.76	
For Horizontal Cores, Add	1.73	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.46	
02 41 19 13-0156 IN Drill 2" Diameter Core In >12" Brick/Concrete Block.....	9.72	
For Horizontal Cores, Add	1.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.84	
02 41 19 13-0157 IN Drill 3" Diameter Core In >12" Brick/Concrete Block.....	10.69	
For Horizontal Cores, Add	2.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.21	
02 41 19 13-0158 IN Drill 4" Diameter Core In >12" Brick/Concrete Block.....	14.24	
For Horizontal Cores, Add	2.81	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.62	
02 41 19 13-0159 IN Drill 6" Diameter Core In >12" Brick/Concrete Block.....	18.52	
For Horizontal Cores, Add	3.65	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	7.31	
02 41 19 13-0160 IN Drill 8" Diameter Core In >12" Brick/Concrete Block.....	29.85	
For Horizontal Cores, Add	5.90	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.80	
02 41 19 13-0161 IN Drill 10" Diameter Core In >12" Brick/Concrete Block.....	32.18	
For Horizontal Cores, Add	6.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.69	
02 41 19 13-0162 IN Drill 12" Diameter Core In >12" Brick/Concrete Block.....	37.08	
For Horizontal Cores, Add	7.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.61	
02 41 19 13-0163 Asphalt Core Drilling (02 41 19 13-0024)		
02 41 19 13-0164 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0165 EA Drill 1" Diameter Core In Up To 2" Asphalt	19.31	
02 41 19 13-0166 EA Drill 1-1/2" Diameter Core In Up To 2" Asphalt	24.15	
02 41 19 13-0167 EA Drill 2" Diameter Core In Up To 2" Asphalt	30.18	
02 41 19 13-0168 EA Drill 3" Diameter Core In Up To 2" Asphalt	37.43	
02 41 19 13-0169 EA Drill 4" Diameter Core In Up To 2" Asphalt	47.10	
02 41 19 13-0170 EA Drill 6" Diameter Core In Up To 2" Asphalt	59.18	
02 41 19 13-0171 EA Drill 8" Diameter Core In Up To 2" Asphalt	73.71	
02 41 19 13-0172 EA Drill 10" Diameter Core In Up To 2" Asphalt	91.80	
02 41 19 13-0173 EA Drill 12" Diameter Core In Up To 2" Asphalt	114.72	
02 41 19 13-0174 >2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0175 EA Drill 1" Diameter Core In >2" To 3" Asphalt	24.14	
02 41 19 13-0176 EA Drill 1-1/2" Diameter Core In >2" To 3" Asphalt	31.37	
02 41 19 13-0177 EA Drill 2" Diameter Core In >2" To 3" Asphalt	38.61	
02 41 19 13-0178 EA Drill 3" Diameter Core In >2" To 3" Asphalt	48.27	
02 41 19 13-0179 EA Drill 4" Diameter Core In >2" To 3" Asphalt	60.35	
02 41 19 13-0180 EA Drill 6" Diameter Core In >2" To 3" Asphalt	76.05	
02 41 19 13-0181 EA Drill 8" Diameter Core In >2" To 3" Asphalt	94.19	
02 41 19 13-0182 EA Drill 10" Diameter Core In >2" To 3" Asphalt	118.31	
02 41 19 13-0183 EA Drill 12" Diameter Core In >2" To 3" Asphalt	147.26	
02 41 19 13-0184 >3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0185 EA Drill 1" Diameter Core In >3" To 4" Asphalt	31.38	
02 41 19 13-0186 EA Drill 1-1/2" Diameter Core In >3" To 4" Asphalt	39.84	
02 41 19 13-0187 EA Drill 2" Diameter Core In >3" To 4" Asphalt	49.49	
02 41 19 13-0188 EA Drill 3" Diameter Core In >3" To 4" Asphalt	61.57	
02 41 19 13-0189 EA Drill 4" Diameter Core In >3" To 4" Asphalt	77.29	
02 41 19 13-0190 EA Drill 6" Diameter Core In >3" To 4" Asphalt	96.62	
02 41 19 13-0191 EA Drill 8" Diameter Core In >3" To 4" Asphalt	120.84	
02 41 19 13-0192 EA Drill 10" Diameter Core In >3" To 4" Asphalt	150.99	
02 41 19 13-0193 EA Drill 12" Diameter Core In >3" To 4" Asphalt	188.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0194 >4" To 6" Thick Asphalt Core Drilling <small>(02 41 19 13-0163)</small>		
02 41 19 13-0195 EA Drill 1" Diameter Core In >4" To 6" Asphalt	41.07	
02 41 19 13-0196 EA Drill 1-1/2" Diameter Core In >4" To 6" Asphalt	50.74	
02 41 19 13-0197 EA Drill 2" Diameter Core In >4" To 6" Asphalt	62.81	
02 41 19 13-0198 EA Drill 3" Diameter Core In >4" To 6" Asphalt	79.77	
02 41 19 13-0199 EA Drill 4" Diameter Core In >4" To 6" Asphalt	99.13	
02 41 19 13-0200 EA Drill 6" Diameter Core In >4" To 6" Asphalt	123.32	
02 41 19 13-0201 EA Drill 8" Diameter Core In >4" To 6" Asphalt	154.83	
02 41 19 13-0202 EA Drill 10" Diameter Core In >4" To 6" Asphalt	193.44	
02 41 19 13-0203 EA Drill 12" Diameter Core In >4" To 6" Asphalt	241.74	
02 41 19 13-0204 Manhole Core Drilling <small>(02 41 19 13-0024)</small>		
02 41 19 13-0205 EA Drill 4" Diameter Core In 6" Brick Manhole	211.43	
02 41 19 13-0206 EA Drill 5" Diameter Core In 6" Brick Manhole	241.62	
02 41 19 13-0207 EA Drill 6" Diameter Core In 6" Brick Manhole	281.80	
02 41 19 13-0208 EA Drill 8" Diameter Core In 6" Brick Manhole	422.61	
02 41 19 13-0209 EA Drill 2" Diameter Core In 8" Concrete Manhole	283.29	
02 41 19 13-0210 EA Drill 3" Diameter Core In 8" Concrete Manhole	301.64	
02 41 19 13-0211 EA Drill 4" Diameter Core In 8" Concrete Manhole	332.07	
02 41 19 13-0212 EA Drill 5" Diameter Core In 8" Concrete Manhole	356.30	
02 41 19 13-0213 EA Drill 6" Diameter Core In 8" Concrete Manhole	422.58	
02 41 19 13-0214 EA Drill 8" Diameter Core In 8" Concrete Manhole	603.55	
02 41 19 13-0215 EA Drill 2" Diameter Core In Fiberglass Manhole	28.10	
02 41 19 13-0216 EA Drill 3" Diameter Core In Fiberglass Manhole	32.44	
02 41 19 13-0217 EA Drill 4" Diameter Core In Fiberglass Manhole	35.14	
02 41 19 13-0218 EA Drill 5" Diameter Core In Fiberglass Manhole	38.34	
02 41 19 13-0219 EA Drill 6" Diameter Core In Fiberglass Manhole	42.18	
02 41 19 13-0220 EA Drill 8" Diameter Core In Fiberglass Manhole	46.86	
02 41 19 13-0221 Drilling In Concrete Per Inch Of Depth <small>(02 41 19 13-0024)</small>		
Note: Includes layout.		
02 41 19 13-0222 IN 1/4" Diameter Drilling In Concrete Per Inch Of Depth	2.22	
02 41 19 13-0223 IN 3/8" Diameter Drilling In Concrete Per Inch Of Depth	2.33	
02 41 19 13-0224 IN 1/2" Diameter Drilling In Concrete Per Inch Of Depth	2.50	
02 41 19 13-0225 IN 5/8" Diameter Drilling In Concrete Per Inch Of Depth	2.65	
02 41 19 13-0226 IN 3/4" Diameter Drilling In Concrete Per Inch Of Depth	2.92	
02 41 19 13-0227 IN 7/8" Diameter Drilling In Concrete Per Inch Of Depth	3.15	
02 41 19 13-0228 IN 1" Diameter Drilling In Concrete Per Inch Of Depth	3.32	
02 41 19 13-0229 IN 1-1/4" Diameter Drilling In Concrete Per Inch Of Depth	3.66	
02 41 19 13-0230 IN 1-1/2" Diameter Drilling In Concrete Per Inch Of Depth	4.15	
02 41 19 13-0231 Drilling In Brick/Concrete Block Per Inch Of Depth <small>(02 41 19 13-0024)</small>		
Note: Includes layout.		
02 41 19 13-0232 IN 1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.85	
02 41 19 13-0233 IN 3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.94	
02 41 19 13-0234 IN 1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.08	
02 41 19 13-0235 IN 5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.22	
02 41 19 13-0236 IN 3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.43	
02 41 19 13-0237 IN 7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.63	
02 41 19 13-0238 IN 1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.76	
02 41 19 13-0239 IN 1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.05	
02 41 19 13-0240 IN 1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.80	
02 41 19 13-0241 Drilling In Wood Or Plastic Per Inch Of Depth <small>(02 41 19 13-0024)</small>		
Note: Includes layout.		
02 41 19 13-0242 IN 1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.91	
02 41 19 13-0243 IN 3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.97	
02 41 19 13-0244 IN 1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.04	
02 41 19 13-0245 IN 5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.10	
02 41 19 13-0246 IN 3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.21	
02 41 19 13-0247 IN 7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.31	
02 41 19 13-0248 IN 1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.38	
02 41 19 13-0249 IN 1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.52	
02 41 19 13-0250 IN 1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.80	
02 41 19 13-0251 Drilling In Drywall Or Plaster Per Inch Of Depth <small>(02 41 19 13-0024)</small>		
Note: Includes layout, high efficiency particulate air (HEPA) vacuum and protection.		
02 41 19 13-0252 IN 1/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	0.91	
02 41 19 13-0253 IN 3/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	0.97	
02 41 19 13-0254 IN 1/2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.04	
02 41 19 13-0255 IN 5/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.10	
02 41 19 13-0256 IN 3/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.21	
02 41 19 13-0257 IN 7/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.31	
02 41 19 13-0258 IN 1" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.38	
02 41 19 13-0259 IN 1-1/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.52	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0260 IN 1-1/2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....	1.80	
02 41 19 13-0261 Limestone Core Drilling (02 41 19 13-0024)		
02 41 19 13-0262 10" To 14" Thick Limestone Core Drilling (02 41 19 13-0261)		
02 41 19 13-0263 EA Drill 1" Diameter Core In 10" To 14" Limestone.....	60.65	
02 41 19 13-0264 EA Drill 1-1/2" Diameter Core In 10" To 14" Limestone.....	72.84	
02 41 19 13-0265 EA Drill 2" Diameter Core In 10" To 14" Limestone.....	79.01	
02 41 19 13-0266 EA Drill 3" Diameter Core In 10" To 14" Limestone.....	91.38	
02 41 19 13-0267 EA Drill 4" Diameter Core In 10" To 14" Limestone.....	103.76	
02 41 19 13-0268 EA Drill 6" Diameter Core In 10" To 14" Limestone.....	146.20	
02 41 19 13-0269 EA Drill 8" Diameter Core In 10" To 14" Limestone.....	243.07	
02 41 19 13-0270 15" To 18" Thick Limestone Core Drilling (02 41 19 13-0261)		
02 41 19 13-0271 EA Drill 1" Diameter Core In 15" To 18" Limestone.....	66.78	
02 41 19 13-0272 EA Drill 1-1/2" Diameter Core In 15" To 18" Limestone.....	78.99	
02 41 19 13-0273 EA Drill 2" Diameter Core In 15" To 18" Limestone.....	85.21	
02 41 19 13-0274 EA Drill 3" Diameter Core In 15" To 18" Limestone.....	91.64	
02 41 19 13-0275 EA Drill 4" Diameter Core In 15" To 18" Limestone.....	122.14	
02 41 19 13-0276 EA Drill 6" Diameter Core In 15" To 18" Limestone.....	158.61	
02 41 19 13-0277 EA Drill 8" Diameter Core In 15" To 18" Limestone.....	255.74	
02 41 19 13-0278 19" To 24" Thick Limestone Core Drilling (02 41 19 13-0261)		
02 41 19 13-0279 EA Drill 1" Diameter Core In 19" To 24" Limestone.....	72.88	
02 41 19 13-0280 EA Drill 1-1/2" Diameter Core In 19" To 24" Limestone.....	85.13	
02 41 19 13-0281 EA Drill 2" Diameter Core In 19" To 24" Limestone.....	91.39	
02 41 19 13-0282 EA Drill 3" Diameter Core In 19" To 24" Limestone.....	103.87	
02 41 19 13-0283 EA Drill 4" Diameter Core In 19" To 24" Limestone.....	146.45	
02 41 19 13-0284 EA Drill 6" Diameter Core In 19" To 24" Limestone.....	183.03	
02 41 19 13-0285 EA Drill 8" Diameter Core In 19" To 24" Limestone.....	274.43	
02 41 19 13-0286 Minimum Charge For Core Drilling (02 41 19 13-0024)		
02 41 19 13-0287 EA Core Drill Minimum Charge.....	835.42	
Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".		
02 41 19 13-0288 Cutouts (02 41 19 13)		
Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0289 Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0288)		
02 41 19 13-0290 SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	49.67	
02 41 19 13-0291 SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	52.68	
02 41 19 13-0292 SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	55.68	
02 41 19 13-0293 SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	58.70	
02 41 19 13-0294 SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	60.20	
02 41 19 13-0295 Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0288)		
Note: Includes cutting and removing steel decking.		
02 41 19 13-0296 SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	60.53	
02 41 19 13-0297 SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	64.20	
02 41 19 13-0298 SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	67.87	
02 41 19 13-0299 SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	71.54	
02 41 19 13-0300 SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	73.38	
02 41 19 13-0301 Reinforced Concrete Wall Cutouts (02 41 19 13-0288)		
02 41 19 13-0302 SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	62.09	
02 41 19 13-0303 SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	65.85	
02 41 19 13-0304 SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	69.62	
02 41 19 13-0305 SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	73.38	
02 41 19 13-0306 SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	75.25	
02 41 19 13-0307 Brick Wall Cutouts (02 41 19 13-0288)		
Note: Excludes toothing.		
02 41 19 13-0308 SF 4" Thick Brick Wall Cutouts, <24 SF.....	18.81	
02 41 19 13-0309 SF 6" Thick Brick Wall Cutouts, <24 SF.....	31.04	
02 41 19 13-0310 SF 8" Thick Brick Wall Cutouts, <24 SF.....	43.23	
02 41 19 13-0311 SF 10" Thick Brick Wall Cutouts, <24 SF.....	52.68	
02 41 19 13-0312 SF 12" Thick Brick Wall Cutouts, <24 SF.....	63.03	
02 41 19 13-0313 SF 16" Thick Brick Wall Cutouts, <24 SF.....	74.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0314	Concrete Block Wall Cutouts <small>(02 41 19 13-0288)</small>	
	Note: Excludes toothing.	
02 41 19 13-0315 SF	4" Thick Concrete Block Wall Cutouts, <24 SF	31.12
02 41 19 13-0316 SF	6" Thick Concrete Block Wall Cutouts, <24 SF	32.96
02 41 19 13-0317 SF	8" Thick Concrete Block Wall Cutouts, <24 SF	34.80
02 41 19 13-0318 SF	10" Thick Concrete Block Wall Cutouts, <24 SF	36.69
02 41 19 13-0319 SF	12" Thick Concrete Block Wall Cutouts, <24 SF	37.63
02 41 19 13-0320 SF	16" Thick Concrete Block Wall Cutouts, <24 SF	39.51
02 41 19 13-0321	Limestone Cutouts <small>(02 41 19 13-0288)</small>	
02 41 19 13-0322 SF	2" Thick Limestone Cutouts, <24 SF	52.68
02 41 19 13-0323 SF	4" Thick Limestone Cutouts, <24 SF	63.97
02 41 19 13-0324 SF	6" Thick Limestone Cutouts, <24 SF	67.73
02 41 19 13-0325 SF	8" Thick Limestone Cutouts, <24 SF	71.49
02 41 19 13-0326 SF	10" Thick Limestone Cutouts, <24 SF	75.25
02 41 19 13-0327 SF	12" Thick Limestone Cutouts, <24 SF	79.02
02 41 19 13-0328	Toothed Masonry Cutouts <small>(02 41 19 13-0288)</small>	
	Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.	
02 41 19 13-0329 VLF	Brick, Soft Old Mortar, Toothing Masonry Cutouts	18.81
02 41 19 13-0330 VLF	Brick, Hard Mortar, Toothing Masonry Cutouts	25.40
02 41 19 13-0331 VLF	Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts	11.29
02 41 19 13-0332 VLF	Concrete Block, Hard Mortar, Toothing Masonry Cutouts	15.05
02 41 19 13-0333	Minimum Charge For Cutouts <small>(02 41 19 13-0288)</small>	
	Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
02 41 19 13-0334 EA	Cutouts Minimum Charge	376.28
02 41 19 13-0335	Exterior Masonry Removal <small>(02 41 19 13)</small>	
02 41 19 13-0336	Masonry Columns Removal (Interior And Exterior) <small>(02 41 19 13-0335)</small>	
02 41 19 13-0337 VLF	8" x 8" Masonry Column Removal	14.47
02 41 19 13-0338 VLF	10" x 10" Masonry Column Removal	22.62
02 41 19 13-0339 VLF	12" x 12" Masonry Column Removal	28.98
02 41 19 13-0340 VLF	14" x 14" Masonry Column Removal	36.27
02 41 19 13-0341 VLF	16" x 16" Masonry Column Removal	44.56
02 41 19 13-0342 CF	Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square	25.02
02 41 19 13-0343	Masonry Chimney Removal <small>(02 41 19 13-0335)</small>	
02 41 19 13-0344 CF	Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed	29.36
02 41 19 13-0345 CF	>3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed	22.03
02 41 19 13-0346 CF	>10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	16.87
02 41 19 13-0347 CF	>20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	11.68
02 41 19 13-0348	Remove And Reset Precast, Stone Or Masonry Coping <small>(02 41 19 13-0335)</small>	
	Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.	
02 41 19 13-0349 LF	Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping	20.12
02 41 19 13-0350 LF	>8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping	29.73
02 41 19 13-0351 LF	>12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping	56.19
02 41 19 13-0352	Facade Removal <small>(02 41 19 13-0335)</small>	
	Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.	
02 41 19 13-0353 SF	Stone Or Brick Veneer Facade Removal	5.51
	<i>For Cleaning and Storage For Reuse, Add</i>	8.27
02 41 19 13-0354	Exterior Masonry Removal <small>(02 41 19 13-0335)</small>	
	Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.	
02 41 19 13-0355 SF	Demolish 4" Thick Non Reinforced Concrete Block Exterior Wall	4.85
02 41 19 13-0356 SF	Demolish 6" Thick Non Reinforced Concrete Block Exterior Wall	5.46
02 41 19 13-0357 SF	Demolish 8" Thick Non Reinforced Concrete Block Exterior Wall	6.61
02 41 19 13-0358 SF	Demolish 10" Thick Non Reinforced Concrete Block Exterior Wall	7.23
02 41 19 13-0359 SF	Demolish 12" Thick Non Reinforced Concrete Block Exterior Wall	7.93
02 41 19 13-0360 SF	Demolish 16" Thick Non Reinforced Concrete Block Exterior Wall	9.92
02 41 19 13-0361 SF	Demolish 4" Thick Reinforced Concrete Block Exterior Wall	5.73

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	02 41 19 13-0362	SF	Demolish 6" Thick Reinforced Concrete Block Exterior Wall	6.55	
	02 41 19 13-0363	SF	Demolish 8" Thick Reinforced Concrete Block Exterior Wall	7.93	
	02 41 19 13-0364	SF	Demolish 10" Thick Reinforced Concrete Block Exterior Wall	8.67	
	02 41 19 13-0365	SF	Demolish 12" Thick Reinforced Concrete Block Exterior Wall	9.52	
	02 41 19 13-0366	SF	Demolish 16" Thick Reinforced Concrete Block Exterior Wall	11.91	
	02 41 19 13-0367	SF	Demolish 4" Thick Brick Exterior Wall	4.85	
			<i>For Cleaning and Storage For Reuse, Add</i>	7.28	
	02 41 19 13-0368	SF	Demolish 6" Thick Brick Exterior Wall	5.46	
			<i>For Cleaning and Storage For Reuse, Add</i>	8.19	
	02 41 19 13-0369	SF	Demolish 8" Thick Brick Exterior Wall	6.61	
			<i>For Cleaning and Storage For Reuse, Add</i>	9.92	
	02 41 19 13-0370	SF	Demolish 10" Thick Brick Exterior Wall	7.23	
			<i>For Cleaning and Storage For Reuse, Add</i>	10.85	
	02 41 19 13-0371	SF	Demolish 12" Thick Brick Exterior Wall	7.93	
			<i>For Cleaning and Storage For Reuse, Add</i>	11.90	
	02 41 19 13-0372	SF	Demolish 16" Thick Brick Exterior Wall	9.92	
			<i>For Cleaning and Storage For Reuse, Add</i>	14.88	
	02 41 19 13-0373	CF	Exterior Brick, Concrete Block Or Composite Removal	14.10	
			<i>For Cleaning and Storage For Reuse, Add</i>	21.15	
	02 41 19 13-0374		Lintel Removal <small>(02 41 19 13-0335)</small>		
			Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
	02 41 19 13-0375	LF	Demolish Steel Lintel	13.41	
	02 41 19 13-0376	LF	Demolish Concrete Or Stone Lintel	17.88	
	02 41 19 13-0377	LF	Demolish Steel Shelf Angle	14.15	
	02 41 19 13-0378		Reinstall Lintel <small>(02 41 19 13-0335)</small>		
			Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
	02 41 19 13-0379	LF	Clean, Prime And Paint Steel Shelf Angle Or Lintel	8.44	
	02 41 19 13-0380	LF	Reinstall Existing Concrete Or Stone Lintel	17.88	
	02 41 19 13-0381	LF	Reinstall Existing Steel Shelf Angle	47.94	
			Note: Includes fasteners.		
	02 41 19 13-0382	LF	Reinstall Existing Steel Lintel	19.87	
	02 41 19 13-0383	LF	Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls	84.34	
	02 41 19 13-0384	LF	Removal And Replacement Of Steel Lintel Over Window Openings	137.64	
	02 41 19 13-0385		Exterior Concrete Wall Removal <small>(02 41 19 13)</small>		
	02 41 19 13-0386	SF	Demolish 4" Thick Reinforced Concrete Exterior Wall	6.43	
	02 41 19 13-0387	SF	Demolish 6" Thick Reinforced Concrete Exterior Wall	11.66	
	02 41 19 13-0388	SF	Demolish 8" Thick Reinforced Concrete Exterior Wall	14.65	
	02 41 19 13-0389	SF	Demolish 10" Thick Reinforced Concrete Exterior Wall	17.28	
	02 41 19 13-0390	SF	Demolish 12" Thick Reinforced Concrete Exterior Wall	20.43	
	02 41 19 13-0391		Elevated Concrete Removal <small>(02 41 19 13)</small>		
	02 41 19 13-0392	CF	Elevated Concrete Beam/Slab/Steps Removal, Reinforced	12.61	
	02 41 19 16		Selective Interior Demolition <small>(02 41 19)</small>		
			Note: Includes break-up of material, loading into truck or dumpster and clean-up.		
	02 41 19 16-0001		Floor Removal <small>(02 41 19 16)</small>		
	02 41 19 16-0002		Scarify Concrete <small>(02 41 19 16-0001)</small>		
			Note: Up to 1/4" removal per pass.		
	02 41 19 16-0003	SF	Scarify Concrete Floor	0.31	
	02 41 19 16-0004	SF	Scarify Concrete Tread And Riser	2.54	
	02 41 19 16-0005	SF	Scarify Concrete Wall	2.31	
	02 41 19 16-0006		Fireproofing Removal <small>(02 41 19 16)</small>		
	02 41 19 16-0007	SF	Removal Of Fireproofing From Concrete Or Steel	1.23	
	02 41 19 16-0008		Demolish Ceiling <small>(02 41 19 16)</small>		
	02 41 19 16-0009	SF	Demolish Drywall Ceiling	0.94	
	02 41 19 16-0010	SF	Demolish Furred Plastered Ceiling	2.20	
	02 41 19 16-0011	SF	Demolish Suspended Plastered Ceiling And Suspension System	1.69	
	02 41 19 16-0012		Demolish Concrete Stair <small>(02 41 19 16)</small>		
	02 41 19 16-0013	CF	Demolish Interior Reinforced Concrete Stairs	7.93	
	02 41 19 16-0014	CF	Demolish Exterior Reinforced Concrete Stairs	6.71	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 16-0015		Demolish Interior Partition/Wall (02 41 19 16) Note: Price includes knock down, loading, clean-up.		
02 41 19 16-0016		Demolish Masonry And Concrete Interior Partition/Walls (02 41 19 16-0015) Note: Includes saw cutting, knock down, loading and clean-up.		
02 41 19 16-0017		Demolish Concrete Block Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0018	SF	Demolish 4" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	5.14	
02 41 19 16-0019	SF	Demolish 6" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	5.48	
02 41 19 16-0020	SF	Demolish 8" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	6.18	
02 41 19 16-0021	SF	Demolish 12" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	7.94	
02 41 19 16-0022	SF	Demolish 16" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	9.93	
02 41 19 16-0023	SF	Demolish 4" Thick Reinforced Concrete Block Interior Partition/Wall.....	6.16	
02 41 19 16-0024	SF	Demolish 6" Thick Reinforced Concrete Block Interior Partition/Wall.....	6.58	
02 41 19 16-0025	SF	Demolish 8" Thick Reinforced Concrete Block Interior Partition/Wall.....	7.43	
02 41 19 16-0026	SF	Demolish 12" Thick Reinforced Concrete Block Interior Partition/Wall.....	9.53	
02 41 19 16-0027	SF	Demolish 16" Thick Reinforced Concrete Block Interior Partition/Wall.....	11.91	
02 41 19 16-0028		Demolish Brick Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0029	SF	Demolish 4" Thick Brick Interior Partition/Wall.....	5.14	
02 41 19 16-0030	SF	Demolish 8" Thick Brick Interior Partition/Wall.....	6.18	
02 41 19 16-0031	SF	Demolish 12" Thick Brick Interior Partition/Wall.....	7.93	
02 41 19 16-0032	SF	Demolish 16" Thick Brick Interior Partition/Wall.....	9.92	
02 41 19 16-0033		Demolish Glass Block Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0034	SF	Demolish Glass Block Interior Partition/Walls.....	4.41	
02 41 19 16-0035		Demolish Concrete Interior Partition/Walls (02 41 19 16-0016) See CSI section 02 41 16 13-0021 for concrete foundation demolition.		
02 41 19 16-0036	SF	Demolish 6" Thick Non Reinforced Concrete Interior Partition/Wall.....	9.35	
02 41 19 16-0037	SF	Demolish 8" Thick Non Reinforced Concrete Interior Partition/Wall.....	11.68	
02 41 19 16-0038	SF	Demolish 12" Thick Non Reinforced Concrete Interior Partition/Wall.....	16.35	
02 41 19 16-0039	SF	Demolish 6" Thick Reinforced Concrete Interior Partition/Wall.....	11.22	
02 41 19 16-0040	SF	Demolish 8" Thick Reinforced Concrete Interior Partition/Wall.....	14.10	
02 41 19 16-0041	SF	Demolish 12" Thick Reinforced Concrete Interior Partition/Wall.....	19.62	
02 41 19 16-0042		Demolish Terra-Cotta Block Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0043	SF	Demolish Up To 6" Thick Terra-Cotta Block Interior Partition/Wall Finished With Plaster.....	1.77	
02 41 19 16-0044		Demolish Stud Framed Interior Partition/Walls (02 41 19 16-0015) Note: Includes knock down, loading and clean-up. Includes demo of insulation if required.		
02 41 19 16-0045	SF	Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 1 Side.....	3.12	
		For Heights >14' To 20', Add	0.47	
		For Heights >20', Add	0.62	
02 41 19 16-0046	SF	Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 2 Sides.....	3.63	
		For Heights >14' To 20', Add	0.54	
		For Heights >20', Add	0.73	
02 41 19 16-0047	SF	Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 1 Side.....	3.98	
		For Heights >14' To 20', Add	0.60	
		For Heights >20', Add	0.80	
02 41 19 16-0048	SF	Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 2 Sides.....	5.54	
		For Heights >14' To 20', Add	0.83	
		For Heights >20', Add	1.11	
02 41 19 16-0049	SF	Demolish Plaster And Lath From 1 Side Of An Interior Partition/Wall.....	1.64	
		For Heights >14' To 20', Add	0.25	
		For Heights >20', Add	0.33	
02 41 19 16-0050	SF	Demolish Plaster And Lath From 2 Sides Of An Interior Partition/Wall.....	1.96	
		For Heights >14' To 20', Add	0.29	
		For Heights >20', Add	0.39	
02 42		Removal and Salvage of Construction Materials (02 40)		
02 42 21		Salvage of Construction Materials (02 42) Note: Includes placement on pallets and storage on site.		
02 42 21 35		Roofing Salvage (02 42 21)		
02 42 21 35-0001		Clay Tile Roof Remove And Salvage For Re-use (02 42 21 35) Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.		
02 42 21 35-0002	SQ	Removal Of Clay Roof Tile, Salvage For Re-use.....	286.83	
02 42 21 47		Flooring Salvage (02 42 21)		
02 42 21 47-0001		Remove And Salvage For Re-Use (02 42 21 47) Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.		
02 42 21 47-0002	SF	Removal Of Brick Flooring And Salvage.....	2.61	

02	Existing Conditions
02 40	Demolition and Structure Moving
02 42	Removal and Salvage of Construction Materials



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 42 21 47-0003 SF Removal Of Ceramic/Quarry Tile Floor And Salvage	2.61	
02 42 21 47-0004 SF Removal Of Terrazzo Flooring And Salvage.....	3.61	
02 42 21 47-0005 SF Removal Of Wood Strip Flooring And Salvage.....	2.11	
02 42 21 47-0006 SF Removal Of Wood Parquet Flooring And Salvage.....	1.11	
02 42 21 47-0007 SF Removal Of Resilient/Linoleum Flooring And Salvage	0.80	

02 43 Structure Moving ^(02 40)

02 43 13 Structure Relocation ^(02 43)

Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.

02 43 13 13 Building Relocation ^(02 43 13)

02 43 13 13-0001 Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete ^(02 43 13 13)

Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.

02 43 13 13-0002 SF Up To 800 SF, Move Relocatable Metal Frame Building	36.26	
02 43 13 13-0003 SF >800 To 920 SF, Move Relocatable Metal Frame Building.....	34.28	
02 43 13 13-0004 SF >920 SF, Move Relocatable Metal Frame Building.....	32.08	
02 43 13 13-0005 SF Up To 800 SF, Move Relocatable Wood Frame Building.....	29.09	
02 43 13 13-0006 SF >800 To 920 SF, Move Relocatable Wood Frame Building	27.19	
02 43 13 13-0007 SF >920 SF, Move Relocatable Wood Frame Building	24.06	
02 43 13 13-0008 SF Up To 800 SF, Move Relocatable Wood/Metal Frame Building.....	35.24	
02 43 13 13-0009 SF >800 To 920 SF, Move Relocatable Wood/Metal Frame Building	32.08	
02 43 13 13-0010 SF >920 SF, Move Relocatable Wood/Metal Frame Building	27.19	

02 60 Contaminated Site Material Removal ⁽⁰²⁾

02 61 Removal and Disposal of Contaminated Soils ^(02 60)

02 61 26 Removal and Disposal of Asbestos Contaminated Soils ^(02 61)

Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

02 61 26 00-0001 Removal and Disposal of Asbestos Contaminated Soils ^(02 61 26)

Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

02 61 26 00-0002 EA Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	922.01	
For Work In Restricted Working Space, Add	276.60	
02 61 26 00-0003 CF >10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	61.12	
For Work In Restricted Working Space, Add	18.34	
02 61 26 00-0004 CF >100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	40.75	
For Work In Restricted Working Space, Add	12.23	
02 61 26 00-0005 CF >250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	30.60	
For Work In Restricted Working Space, Add	9.18	
02 61 26 00-0006 CF >500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	24.45	
For Work In Restricted Working Space, Add	7.34	
02 61 26 00-0007 CF >2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	20.78	
For Work In Restricted Working Space, Add	6.23	
02 61 26 00-0008 CF >10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	18.70	
For Work In Restricted Working Space, Add	5.61	

02 80 Facility Remediation ⁽⁰²⁾

02 81 Transportation and Disposal of Hazardous Materials ^(02 80)

02 81 00 00-0001 Equipment Oil Drain And Disposal ^(02 81)

02 81 00 00-0002 TRIP Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site	633.15	
Note: Excludes Disposal Cost.		
02 81 00 00-0003 DRM Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum.....	99.50	
Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0004 DRM Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum.....	452.25	
Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0005 DRM Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum	814.05	
Note: Excludes draining, placing in approved container, and transporting to disposal site.		



Existing Conditions		02
Facility Remediation		02 80
Transportation and Disposal of Hazardous Materials		02 81

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 81 00 00-0006 CF Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site 108.58
 Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.

02 82 Asbestos Remediation (02 80)

See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

02 82 13 Asbestos Abatement (02 82)

02 82 13 00-0001 Air Monitoring And Bulk Sampling, Asbestos Testing (02 82 13)

Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.

02 82 13 00-0002	HR	Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring	73.62
02 82 13 00-0003	EA	48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	58.90
02 82 13 00-0004	EA	Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	69.06
02 82 13 00-0005	EA	Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	109.68
02 82 13 00-0006	EA	48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing	188.90
02 82 13 00-0007	EA	Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	229.53
02 82 13 00-0008	EA	48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing.....	46.72
02 82 13 00-0009	EA	Next Day Turnaround, (Air) PCM Test, Asbestos Testing	56.87
02 82 13 00-0010	EA	Same Day Turnaround, (Air) PCM Test, Asbestos Testing	77.19
02 82 13 00-0011	EA	48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	58.90
02 82 13 00-0012	EA	Next Day Turnaround, (Air Point Counting) PLM Test	69.06
02 82 13 00-0013	EA	Same Day Turnaround, (Air Point Counting) PLM Test	109.68
02 82 13 00-0014	EA	48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	188.90
02 82 13 00-0015	EA	Next Day Turnaround, (Air) TEM Test, Asbestos Testing.....	217.34
02 82 13 00-0016	EA	Same Day Turnaround, (Air) TEM Test, Asbestos Testing	302.65

02 82 16 Engineering Control of Asbestos Containing Materials (02 82)

02 82 16 00-0001 Asbestos Encapsulation (Lock-Down) (02 82 16)

02 82 16 00-0002	SF	Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat	1.55
02 82 16 00-0003	SF	Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	2.12
02 82 16 00-0004	SF	Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®)	2.32
02 82 16 00-0005	SF	Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®)	2.50
02 82 16 00-0006	SF	Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®).....	7.87
02 82 16 00-0007	SF	Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®)	8.94

02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. This does not apply to glove bag projects.

02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)

02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001)

Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.

02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)

See CSI section 02 82 33 00-0017 for projects with less than 10 LF.

02 82 33 00-0004	SET	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	964.70
		<i>For Work In Restricted Working Space, Add</i>	276.60
02 82 33 00-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	33.56
		<i>For Work In Restricted Working Space, Add</i>	9.43
02 82 33 00-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	25.71
		<i>For Work In Restricted Working Space, Add</i>	7.07
02 82 33 00-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	19.81
		<i>For Work In Restricted Working Space, Add</i>	5.30
02 82 33 00-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	15.39
		<i>For Work In Restricted Working Space, Add</i>	3.98
02 82 33 00-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	13.66
		<i>For Work In Restricted Working Space, Add</i>	3.46

02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)

See CSI section 02 82 33 00-0017 for projects with less than 10 LF.

02 82 33 00-0011	SET	Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	1,007.39
		<i>For Work In Restricted Working Space, Add</i>	276.60
02 82 33 00-0012	LF	>20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	40.42
		<i>For Work In Restricted Working Space, Add</i>	10.85
02 82 33 00-0013	LF	>250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	31.38
		<i>For Work In Restricted Working Space, Add</i>	8.13

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0014	LF		>500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	24.61	
			<i>For Work In Restricted Working Space, Add</i>	6.10	
02 82 33 00-0015	LF		>2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	19.51	
			<i>For Work In Restricted Working Space, Add</i>	4.57	
02 82 33 00-0016	LF		>10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	17.54	
			<i>For Work In Restricted Working Space, Add</i>	3.98	
02 82 33 00-0017			Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)		
			Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0018	SET		Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal.....	601.82	
			<i>For Work In Restricted Working Space, Add</i>	176.70	
02 82 33 00-0019	LF		>3 To 20 LF Additional Glove Bag Work for Pipe Insulation.....	102.44	
			<i>For Work In Restricted Working Space, Add</i>	29.45	
02 82 33 00-0020	LF		>20 To 250 LF Additional Glove Bag Work for Pipe Insulation.....	42.38	
			<i>For Work In Restricted Working Space, Add</i>	11.43	
02 82 33 00-0021	LF		>250 To 500 LF Additional Glove Bag Work for Pipe Insulation.....	32.84	
			<i>For Work In Restricted Working Space, Add</i>	8.57	
02 82 33 00-0022	LF		>500 LF Additional Glove Bag Work for Pipe Insulation.....	25.70	
			<i>For Work In Restricted Working Space, Add</i>	6.43	
02 82 33 00-0023			Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0024			Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0025	SET		Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	943.35	
02 82 33 00-0026	SF		>10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	39.70	
02 82 33 00-0027	SF		>500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	33.03	
02 82 33 00-0028	SF		>2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	26.83	
02 82 33 00-0029	SF		>10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	22.18	
02 82 33 00-0030			Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0031	SET		Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	932.68	
02 82 33 00-0032	SF		>10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	34.34	
02 82 33 00-0033	SF		>500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	27.67	
02 82 33 00-0034	SF		>2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	21.47	
02 82 33 00-0035	SF		>10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	16.83	
02 82 33 00-0036			Fibrous Glass Board Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0037	SET		Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	929.13	
02 82 33 00-0038	SF		>10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	30.30	
02 82 33 00-0039	SF		>500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	23.62	
02 82 33 00-0040	SF		>2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	17.42	
02 82 33 00-0041	SF		>10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	12.78	
02 82 33 00-0042			Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0023)		
			Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0043	SET		Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	948.69	
02 82 33 00-0044	SF		>25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	32.50	
02 82 33 00-0045	SF		>500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	25.82	
02 82 33 00-0046	SF		>2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	19.64	
02 82 33 00-0047	SF		>10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	14.99	
02 82 33 00-0048			Surfacing Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0049			Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0048)		
			Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0051 for areas > 1 SF see CSI section.		
02 82 33 00-0050	EA		Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal.....	154.74	
			Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.		
02 82 33 00-0051			Fireproofing, Asbestos Abatement And Disposal (02 82 33 00-0048)		
			Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0052	SET		Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal.....	948.69	
02 82 33 00-0053	SF		>25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal.....	38.78	
02 82 33 00-0054	SF		>500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal.....	29.35	
02 82 33 00-0055	SF		>2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	22.28	
02 82 33 00-0056	SF		>10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	16.98	
02 82 33 00-0057			Acoustical Plaster, Asbestos Abatement And Disposal (02 82 33 00-0048)		
			Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0058	SET		Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	939.80	



Existing Conditions	02	02
Facility Remediation	02 80	
Asbestos Remediation	02 82	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0059 SF >25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	16.46	
02 82 33 00-0060 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	12.62	
02 82 33 00-0061 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	9.55	
02 82 33 00-0062 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	7.24	
02 82 33 00-0063 Gypsum Wall Board, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0064 SET Up To 50 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	957.59	
For Additional Layer, Add	253.55	
02 82 33 00-0065 SF >50 To 500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	12.81	
For Additional Layer, Add	3.33	
02 82 33 00-0066 SF >500 To 2,500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	9.55	
For Additional Layer, Add	2.43	
02 82 33 00-0067 SF >2,500 To 10,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	7.63	
For Additional Layer, Add	1.90	
02 82 33 00-0068 SF >10,000 To 50,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	6.09	
For Additional Layer, Add	1.48	
02 82 33 00-0069 SF >50,000 To 100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	4.93	
For Additional Layer, Add	1.16	
02 82 33 00-0070 SF >100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	4.09	
For Additional Layer, Add	0.93	
02 82 33 00-0071 Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0072 SET Up To 25 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	939.80	
02 82 33 00-0073 SF >25 To 500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	23.69	
02 82 33 00-0074 SF >500 To 2,500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	17.53	
02 82 33 00-0075 SF >2,500 To 10,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	13.85	
02 82 33 00-0076 SF >10,000 To 50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	10.93	
02 82 33 00-0077 SF >50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	8.01	
02 82 33 00-0078 Stucco, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0079 SET Up To 50 SF, Stucco, Asbestos Abatement And Disposal	957.59	
02 82 33 00-0080 SF >50 To 500 SF, Stucco, Asbestos Abatement And Disposal	20.75	
02 82 33 00-0081 SF >500 To 2,500 SF, Stucco, Asbestos Abatement And Disposal	15.72	
02 82 33 00-0082 SF >2,500 To 10,000 SF, Stucco, Asbestos Abatement And Disposal	11.99	
02 82 33 00-0083 SF >10,000 SF, Stucco, Asbestos Abatement And Disposal	9.16	
02 82 33 00-0084 Spray On Acoustical Ceiling, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0085 SET Up To 50 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	957.59	
02 82 33 00-0086 SF >50 To 500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	10.95	
02 82 33 00-0087 SF >500 To 2,500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	9.10	
02 82 33 00-0088 SF >2,500 To 10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	6.48	
02 82 33 00-0089 SF >10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	5.02	
02 82 33 00-0090 Plywood, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0091 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal.....	950.48	
02 82 33 00-0092 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal	13.77	
02 82 33 00-0093 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal	6.99	
02 82 33 00-0094 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal	4.95	
02 82 33 00-0095 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal.....	4.32	
02 82 33 00-0096 Flooring Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0097 Floor Tile, Linoleum, Carpet Or Base, Asbestos Abatement And Disposal (02 82 33 00-0096)		
02 82 33 00-0098 Floor Tile, Asbestos Abatement And Disposal (02 82 33 00-0097)		
Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0099 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	929.13	
For Each Additional Layer, Add	139.37	
02 82 33 00-0100 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	6.99	
For Each Additional Layer, Add	1.05	
02 82 33 00-0101 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	5.82	
For Each Additional Layer, Add	0.87	
02 82 33 00-0102 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	4.75	
For Each Additional Layer, Add	0.71	
02 82 33 00-0103 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	3.44	
For Each Additional Layer, Add	0.52	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 82 33 00-0104	Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal (02 82 33 00-0097)	
	Note: Single layer or first of multiple layers. Excludes mastic.	
02 82 33 00-0105	SET Up To 100 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	929.13
	For Each Additional Layer, Add	139.37
02 82 33 00-0106	SF >100 To 500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	6.99
	For Each Additional Layer, Add	1.05
02 82 33 00-0107	SF >500 To 2,500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	5.84
	For Each Additional Layer, Add	0.88
02 82 33 00-0108	SF >2,500 To 10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	5.35
	For Each Additional Layer, Add	0.80
02 82 33 00-0109	SF >10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	4.42
	For Each Additional Layer, Add	0.66
02 82 33 00-0110	Carpet, Asbestos Abatement And Disposal (02 82 33 00-0097)	
02 82 33 00-0111	SET Up To 100 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	929.13
02 82 33 00-0112	SF >100 To 500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	5.54
02 82 33 00-0113	SF >500 To 2,500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	4.58
02 82 33 00-0114	SF >2,500 To 10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	3.49
02 82 33 00-0115	SF >10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	2.78
02 82 33 00-0116	Wall Or Cove Base, Asbestos Abatement And Disposal (02 82 33 00-0097)	
	Note: Up to 12".	
02 82 33 00-0117	SET Up To 25 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	316.23
02 82 33 00-0118	LF >25 To 100 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	4.46
02 82 33 00-0119	LF >100 To 500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	2.81
02 82 33 00-0120	LF >500 To 2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.90
02 82 33 00-0121	LF >2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.44
02 82 33 00-0122	Mastic, Asbestos Abatement And Disposal (02 82 33 00-0096)	
	Note: Applies to single layer or bottom layer only of multiple layers. Non hydrocarbon with pine, citrus or no odor.	
02 82 33 00-0123	SET Up To 100 SF, Mastic, Asbestos Abatement And Disposal.....	939.81
	Note: Applies to bottom layer only if multiple layers.	
02 82 33 00-0124	SF >100 To 500 SF, Mastic, Asbestos Abatement And Disposal.....	2.48
	Note: Applies to bottom layer only if multiple layers.	
02 82 33 00-0125	SF >500 To 2,500 SF, Mastic, Asbestos Abatement And Disposal.....	1.86
	Note: Applies to bottom layer only if multiple layers.	
02 82 33 00-0126	SF >2,500 To 10,000 SF, Mastic, Asbestos Abatement And Disposal.....	1.48
	Note: Applies to bottom layer only if multiple layers.	
02 82 33 00-0127	SF >10,000 SF, Mastic, Asbestos Abatement And Disposal.....	1.22
	Note: Applies to bottom layer only if multiple layers.	
02 82 33 00-0128	Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0096)	
	Note: Includes finish wood, asbestos barrier paper, cleanup of sub-wood floor, fasteners, wood fillers and protection of clean crawl space from contamination.	
02 82 33 00-0129	SET Up To 100 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	993.17
02 82 33 00-0130	SF >100 To 500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	7.98
02 82 33 00-0131	SF >500 To 2,500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	6.01
02 82 33 00-0132	SF >2,500 To 10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	4.86
02 82 33 00-0133	SF >10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.94
02 82 33 00-0134	Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal (02 82 33 00-0096)	
02 82 33 00-0135	SET Up To 100 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	957.57
02 82 33 00-0136	SF >100 To 500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	8.59
02 82 33 00-0137	SF >500 To 2,500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	5.74
	Note: Includes detachment of mounted objects before removal.	
02 82 33 00-0138	SF >2,500 To 10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	4.58
02 82 33 00-0139	SF >10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	3.82
02 82 33 00-0140	Roofing, Asbestos Abatement And Disposal (02 82 33)	
02 82 33 00-0141	Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0140)	
	Note: Includes roofing, flashing, sheet metal, insulation, pitch pockets, board etc.	
02 82 33 00-0142	Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0141)	
02 82 33 00-0143	SET Up To 125 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,010.96
02 82 33 00-0144	SF >125 To 1,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.60



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	02 82 33 00-0145	SF >1,000 To 5,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.42	
	02 82 33 00-0146	SF >5,000 To 10,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.48	
	02 82 33 00-0147	SF >10,000 To 20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.54	
	02 82 33 00-0148	SF >20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	2.83	
02 82 33 00-0149		>2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0141)		
	02 82 33 00-0150	SET Up To 110 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,078.54	
	02 82 33 00-0151	SF >110 To 1,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	8.14	
	02 82 33 00-0152	SF >1,000 To 5,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.77	
	02 82 33 00-0153	SF >5,000 To 10,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.73	
	02 82 33 00-0154	SF >10,000 To 20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.65	
	02 82 33 00-0155	SF >20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.83	
02 82 33 00-0156		>5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0141)		
	02 82 33 00-0157	SET Up To 110 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,156.80	
	02 82 33 00-0158	SF >110 To 1,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	9.58	
	02 82 33 00-0159	SF >1,000 To 5,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	8.07	
	02 82 33 00-0160	SF >5,000 To 10,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.92	
	02 82 33 00-0161	SF >10,000 To 20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.72	
	02 82 33 00-0162	SF >20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.81	
02 82 33 00-0163		Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0140)		
02 82 33 00-0164		Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0163)		
	02 82 33 00-0165	SET Up To 125 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	944.24	
	02 82 33 00-0166	SF >125 To 1,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	6.07	
		<i>For Each Additional Layer, Add</i>	1.21	
	02 82 33 00-0167	SF >1,000 To 5,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	4.89	
		<i>For Each Additional Layer, Add</i>	0.98	
	02 82 33 00-0168	SF >5,000 To 10,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	3.95	
		<i>For Each Additional Layer, Add</i>	0.79	
	02 82 33 00-0169	SF >10,000 To 20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	3.01	
		<i>For Each Additional Layer, Add</i>	0.60	
	02 82 33 00-0170	SF >20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	2.30	
		<i>For Each Additional Layer, Add</i>	0.46	
02 82 33 00-0171		Roof Penetration Mastic, Asbestos Abatement And Disposal (02 82 33 00-0140)		
	02 82 33 00-0172	SET Up To 10 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	309.12	
	02 82 33 00-0173	SF >10 To 50 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.48	
	02 82 33 00-0174	SF >50 To 100 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.07	
	02 82 33 00-0175	SF >100 To 250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.70	
	02 82 33 00-0176	SF >250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.28	
02 82 33 00-0177		Roof Curb Mastic, Asbestos Abatement And Disposal (02 82 33 00-0140)		
	02 82 33 00-0178	SET Up To 10 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	309.12	
	02 82 33 00-0179	LF >10 To 20 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	7.10	
	02 82 33 00-0180	LF >20 To 50 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	5.71	
	02 82 33 00-0181	LF >50 To 150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	4.79	
	02 82 33 00-0182	LF >150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	3.50	
02 82 33 00-0183		Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0184		Interior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0183)		
		Note: Includes detachment of mounted objects before removal.		
	02 82 33 00-0185	SET Up To 100 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal..... Note: Includes detachment of mounted objects before removal.	957.57	
	02 82 33 00-0186	SF >100 To 500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal..... Note: Includes detachment of mounted objects before removal.	6.64	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0187 SF >500 To 2,500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.50	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0188 SF >2,500 To 10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.87	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0189 SF >10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.54	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0190 Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0183)		
02 82 33 00-0191 SET Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	957.57	
02 82 33 00-0192 SF >100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	5.82	
02 82 33 00-0193 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.15	
02 82 33 00-0194 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.60	
02 82 33 00-0195 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.30	
02 82 33 00-0196 Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal (02 82 33 00-0183)		
02 82 33 00-0197 SET Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	811.03	
02 82 33 00-0198 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	35.70	
02 82 33 00-0199 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	27.85	
02 82 33 00-0200 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	21.95	
02 82 33 00-0201 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	17.53	
02 82 33 00-0202 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	14.22	
02 82 33 00-0203 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	13.98	
02 82 33 00-0204 Exterior Transite Siding, Asbestos Abatement And Disposal (02 82 33 00-0183)		
02 82 33 00-0205 SET Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	982.31	
Note: Single or first of multiple layers.		
02 82 33 00-0206 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	5.27	
Note: Single or first of multiple layers.		
02 82 33 00-0207 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	4.29	
Note: Single or first of multiple layers.		
02 82 33 00-0208 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	3.50	
Note: Single or first of multiple layers.		
02 82 33 00-0209 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	2.72	
Note: Single or first of multiple layers.		
02 82 33 00-0210 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	2.13	
Note: Single or first of multiple layers.		
02 82 33 00-0211 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0212 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0211)		
02 82 33 00-0213 SET Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	657.36	
For Work In Restricted Working Space, Add	184.40	
02 82 33 00-0214 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	65.39	
For Work In Restricted Working Space, Add	18.34	
02 82 33 00-0215 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	45.02	
For Work In Restricted Working Space, Add	12.23	
02 82 33 00-0216 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	34.87	
For Work In Restricted Working Space, Add	9.18	
02 82 33 00-0217 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	28.72	
For Work In Restricted Working Space, Add	7.34	
02 82 33 00-0218 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	25.05	
For Work In Restricted Working Space, Add	6.23	
02 82 33 00-0219 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	22.97	
For Work In Restricted Working Space, Add	5.61	
02 82 33 00-0220 Other Asbestos Containing Materials, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0221 30" To 36" Fire Door, Asbestos Abatement And Disposal (02 82 33 00-0220)		
02 82 33 00-0222 SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	326.55	
02 82 33 00-0223 EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	129.86	
02 82 33 00-0224 EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	118.78	
02 82 33 00-0225 HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal (02 82 33 00-0220)		
02 82 33 00-0226 SET Up To 10 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	308.23	
02 82 33 00-0227 LF >10 To 50 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	6.37	
02 82 33 00-0228 LF >50 To 100 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	4.80	
02 82 33 00-0229 LF >100 To 250 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	4.15	
02 82 33 00-0230 LF >250 To 1,000 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	3.58	
02 82 33 00-0231 LF >1,000 To 2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	3.08	
02 82 33 00-0232 LF >2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	2.66	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0233 Grout, Asbestos Abatement And Disposal (02 82 33 00-0220)						
Note: e.g. flue grout.						
				02 82 33 00-0234 SET Up To 10 LF, Grout, Asbestos Abatement And Disposal.....	307.93	
				02 82 33 00-0235 LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal	12.16	
				02 82 33 00-0236 LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal	8.39	
				02 82 33 00-0237 LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal	7.19	
				02 82 33 00-0238 LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal	6.19	
				02 82 33 00-0239 LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal	5.34	
				02 82 33 00-0240 LF >2,500 LF, Grout, Asbestos Abatement And Disposal	4.59	
02 82 33 00-0241 Gaskets, Asbestos Abatement And Disposal (02 82 33 00-0220)						
Note: e.g. rope, web cloth, flat.						
				02 82 33 00-0242 SET Up To 10 LF, Gaskets, Asbestos Abatement And Disposal.....	308.23	
				02 82 33 00-0243 LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal	16.39	
				02 82 33 00-0244 LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal	12.31	
				02 82 33 00-0245 LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal	10.50	
				02 82 33 00-0246 LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal	9.46	
				02 82 33 00-0247 LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal	8.51	
				02 82 33 00-0248 LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal	8.11	
02 82 33 00-0249 Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal (02 82 33 00-0220)						
Note: e.g. grid, spline, or glued on.						
				02 82 33 00-0250 SET Up To 50 SF, Ceiling Tile, Asbestos Abatement And Disposal.....	632.45	
Note: Including Glue Removal						
				02 82 33 00-0251 SF >50 To 1,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	13.42	
Note: Including Glue Removal						
				02 82 33 00-0252 SF >1,000 To 2,500 SF, Ceiling Tile, Asbestos Abatement And Disposal	6.64	
Note: Including Glue Removal						
				02 82 33 00-0253 SF >2,500 To 10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	4.60	
Note: Including Glue Removal						
				02 82 33 00-0254 SF >10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	3.97	
Note: Including Glue Removal						
02 82 33 00-0255 Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0220)						
Note: Includes ceiling tile, asbestos barrier paper, and furring strips.						
				02 82 33 00-0256 SET Up To 50 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	624.27	
				02 82 33 00-0257 SF >50 To 1,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	13.42	
				02 82 33 00-0258 SF >1,000 To 2,500 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	6.64	
				02 82 33 00-0259 SF >2,500 To 10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	4.60	
				02 82 33 00-0260 SF >10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.97	
02 82 33 00-0261 Caulking, Asbestos Abatement And Disposal (02 82 33 00-0220)						
02 82 33 00-0262 Non Friable Caulking, Asbestos Abatement And Disposal (02 82 33 00-0261)						
				02 82 33 00-0263 SET Up To 10 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	307.93	
				02 82 33 00-0264 LF >10 To 50 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	9.13	
				02 82 33 00-0265 LF >50 To 100 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	6.45	
				02 82 33 00-0266 LF >100 To 250 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	4.82	
				02 82 33 00-0267 LF >250 To 1,000 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	3.63	
				02 82 33 00-0268 LF >1,000 To 2,500 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	2.89	
				02 82 33 00-0269 LF >2,500 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	2.51	
02 82 33 00-0270 Window Putty, Asbestos Abatement And Disposal (02 82 33 00-0220)						
				02 82 33 00-0271 SET Up To 10 LF, Window Putty, Asbestos Abatement And Disposal	307.93	
				02 82 33 00-0272 LF >10 To 50 LF, Window Putty, Asbestos Abatement And Disposal	12.16	
				02 82 33 00-0273 LF >50 To 100 LF, Window Putty, Asbestos Abatement And Disposal	8.39	
				02 82 33 00-0274 LF >100 To 250 LF, Window Putty, Asbestos Abatement And Disposal	7.19	
				02 82 33 00-0275 LF >250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal	6.19	
				02 82 33 00-0276 LF >1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	5.34	
02 82 33 00-0277 Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0220)						
				02 82 33 00-0278 SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	696.63	
				02 82 33 00-0279 EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	75.50	
				02 82 33 00-0280 EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	57.17	
				02 82 33 00-0281 EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	48.04	
				02 82 33 00-0282 EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	42.49	
				02 82 33 00-0283 EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	39.19	
				02 82 33 00-0284 EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	37.31	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**02 83 Lead Remediation** (02 80)

See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

02 83 19 Lead-Based Paint Remediation (02 83)**02 83 19 13 Lead-Based Paint Abatement** (02 83 19)

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting.

02 83 19 13-0001 Lead Sampling And Testing (02 83 19 13)

Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Excludes sampling time.

02 83 19 13-0002	HR	Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring	83.54
02 83 19 13-0003	EA	X-Ray Fluorescence (XRF) Lead Testing	70.02
		Note: Including Technician, 3 Readings Per Surface And Lab Fee	
02 83 19 13-0004	EA	5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	67.03
02 83 19 13-0005	EA	48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	101.56
02 83 19 13-0006	EA	24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	142.18
02 83 19 13-0007	EA	5 Day Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	26.41
02 83 19 13-0008	EA	24 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	40.62
02 83 19 13-0009	EA	8 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	50.78
02 83 19 13-0010	EA	5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	67.03
02 83 19 13-0011	EA	3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	101.56
02 83 19 13-0012	EA	5 Day Turnaround Lead Wipe Samples And Lab Fee	11.17
02 83 19 13-0013	EA	24 Hour Turnaround Lead Wipe Samples And Lab Fee	15.23
02 83 19 13-0014	EA	8 Hour Turnaround Lead Wipe Samples And Lab Fee	22.34
02 83 19 13-0015	EA	5 Day Turnaround Lead Air Samples And Lab Fee	11.17
02 83 19 13-0016	EA	24 Hour Turnaround Lead Air Samples And Lab Fee	15.23
02 83 19 13-0017	EA	8 Hour Turnaround Lead Air Samples And Lab Fee	22.34
02 83 19 13-0018	EA	5 Day Turnaround Lead Water Test and Lab Fee	40.62
02 83 19 13-0019	EA	24 Hour Turnaround Lead Water Test and Lab Fee	60.94
02 83 19 13-0020	EA	8 Hour Turnaround Lead Water Test and Lab Fee	81.25
02 83 19 13-0021	EA	5 Day Turnaround Lead Paint Chip Test and Lab Fee	42.01
02 83 19 13-0022	EA	5 Day Turnaround Lead Soil Test and Lab Fee	84.02

02 83 19 13-0023 Minimum Charge For Lead-Based Paint Remediation (02 83 19 13)

02 83 19 13-0024	EA	Lead-Based Paint Remediation Minimum Show Up Charge	1,156.24
		Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.	

02 83 19 13-0025 Chemical Stripping Of Lead Contaminated Material (02 83 19 13)

Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not limited to, chromium, cadmium and mercury.

02 83 19 13-0026	SF	Balustrades, Chemical Stripping Of Lead Contaminated Material	32.03
		For 0.025" (25 mil) Application, Add	1.82
		For 0.03" (30 mil) Application, Add	2.87
02 83 19 13-0027	SF	Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	47.50
		For 0.025" (25 mil) Application, Add	2.59
		For 0.03" (30 mil) Application, Add	4.03
02 83 19 13-0028	LF	Up To 6" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material	13.76
		For 0.025" (25 mil) Application, Add	0.82
		For 0.03" (30 mil) Application, Add	1.31
		For 0.125" (125 mil) Application, Add	7.40
02 83 19 13-0029	LF	>6" To 12" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material	28.10
		For 0.025" (25 mil) Application, Add	1.54
		For 0.03" (30 mil) Application, Add	2.39
		For 0.125" (125 mil) Application, Add	10.99
02 83 19 13-0030	SF	Cornice, Chemical Stripping Of Lead Contaminated Material	14.96
		For 0.025" (25 mil) Application, Add	0.97
		For 0.03" (30 mil) Application, Add	1.59
02 83 19 13-0031	SF	Cornice, Ornate, Chemical Stripping Of Lead Contaminated Material	42.35
		For 0.025" (25 mil) Application, Add	2.34
		For 0.03" (30 mil) Application, Add	3.64
02 83 19 13-0032	SF	Brick, Concrete Block, Concrete, Chemical Stripping Of Lead Contaminated Material	9.24
		For 0.025" (25 mil) Application, Add	0.64
		For 0.03" (30 mil) Application, Add	1.07
		For 0.125" (125 mil) Application, Add	7.59
02 83 19 13-0033	SF	Cabinets, Chemical Stripping Of Lead Contaminated Material	26.78
		For 0.025" (25 mil) Application, Add	1.52
		For 0.03" (30 mil) Application, Add	2.38



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0034	SF		Cabinets, Ornate, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	34.13 1.88 2.93	
02 83 19 13-0035	SF		Plaster, Stucco and Drywall Surfaces, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	12.73 0.81 1.33	
02 83 19 13-0036	SF		Columns, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	12.23 0.83 1.38 9.60	
02 83 19 13-0037	SF		Flush Doors, One Side, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	10.78 0.72 1.18	
02 83 19 13-0038	SF		Raised Panel Doors and Decorative Doors, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	13.25 0.84 1.37	
02 83 19 13-0039	SF		Sectional Panel Or Roll-Up Doors, Chemical Stripping Of Lead Contaminated <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	19.50 1.19 1.93	
02 83 19 13-0040	EA		Electrical Devices, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	55.74 3.14 4.92	
02 83 19 13-0041	LF		Door Frames, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	13.83 0.87 1.41	
02 83 19 13-0042	SF		Wood Floors, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	7.61 0.56 0.94	
02 83 19 13-0043	SF		HVAC Grilles, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	28.63 1.61 2.52	
02 83 19 13-0044	SF		HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	34.13 1.88 2.93	
02 83 19 13-0045	EA		Hinges, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	17.93 1.16 1.90	
02 83 19 13-0046	EA		Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	22.09 1.37 2.21 13.38	
02 83 19 13-0047	LF		Up To 2" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	6.17 0.44 0.74 5.50	
02 83 19 13-0048	LF		>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	9.91 0.63 1.02 6.44	
02 83 19 13-0049	LF		>4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	17.71 1.10 1.79 10.97	
02 83 19 13-0050	LF		>8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	24.28 1.48 2.38 13.93	
02 83 19 13-0051	LF		>12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	43.54 2.57 4.10 22.71	
02 83 19 13-0052	SF		>16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	13.00 0.74 1.17 6.07	
02 83 19 13-0053	EA		Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	258.55 14.20 22.09	
02 83 19 13-0054	SF		Flat And Raised Panel Wood Shutters, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	18.12 1.40 2.40	
02 83 19 13-0055	SF		Louvered Wood Shutters, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	19.84 1.48 2.53	
02 83 19 13-0056	SF		Siding, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	10.34 0.74 1.24 9.13	
02 83 19 13-0057	SF		Soffit, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	21.66 1.26 2.00 10.70	
02 83 19 13-0058	SF		Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	9.97 0.67 1.12 7.77	

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0059	SF		Corrugated Steel, Chemical Stripping Of Lead Contaminated Material	11.32	
			<i>For 0.025" (25 mil) Application, Add</i>	0.74	
			<i>For 0.03" (30 mil) Application, Add</i>	1.22	
			<i>For 0.125" (125 mil) Application, Add</i>	8.11	
02 83 19 13-0060	SF		Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material	11.29	
			<i>For 0.025" (25 mil) Application, Add</i>	0.74	
			<i>For 0.03" (30 mil) Application, Add</i>	1.22	
			<i>For 0.125" (125 mil) Application, Add</i>	8.10	
02 83 19 13-0061	SF		Steel Trusses, Chemical Stripping Of Lead Contaminated Material	15.99	
			<i>For 0.025" (25 mil) Application, Add</i>	0.98	
			<i>For 0.03" (30 mil) Application, Add</i>	1.57	
			<i>For 0.125" (125 mil) Application, Add</i>	9.28	
02 83 19 13-0062	SF		Wood Surfaces, Chemical Stripping Of Lead Contaminated Material	11.29	
			<i>For 0.025" (25 mil) Application, Add</i>	0.74	
			<i>For 0.03" (30 mil) Application, Add</i>	1.22	
			<i>For 0.125" (125 mil) Application, Add</i>	8.10	
02 83 19 13-0063	SF		Windows (Sash, Sill, Jambs, Casing Trim), One Side, 1/1 Light, Chemical Stripping Of Lead Contaminated Material	26.00	
			<i>For 0.025" (25 mil) Application, Add</i>	1.48	
			<i>For 0.03" (30 mil) Application, Add</i>	2.32	
02 83 19 13-0064	SF		Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 2/2 Light, Chemical Stripping Of Lead Contaminated Material	28.46	
			<i>For 0.025" (25 mil) Application, Add</i>	1.60	
			<i>For 0.03" (30 mil) Application, Add</i>	2.51	
02 83 19 13-0065	SF		Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 4/4 Light, Chemical Stripping Of Lead Contaminated Material	30.12	
			<i>For 0.025" (25 mil) Application, Add</i>	1.68	
			<i>For 0.03" (30 mil) Application, Add</i>	2.63	
02 83 19 13-0066	SF		Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 6/6 Light, Chemical Stripping Of Lead Contaminated Material	31.78	
			<i>For 0.025" (25 mil) Application, Add</i>	1.77	
			<i>For 0.03" (30 mil) Application, Add</i>	2.76	
02 83 19 13-0067	SF		Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 8/8 Light Chemical Stripping Of Lead Contaminated Material	33.44	
			<i>For 0.025" (25 mil) Application, Add</i>	1.85	
			<i>For 0.03" (30 mil) Application, Add</i>	2.88	
02 83 19 13-0068	SF		Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 10/10 Light, Chemical Stripping Of Lead Contaminated Material	35.17	
			<i>For 0.025" (25 mil) Application, Add</i>	1.93	
			<i>For 0.03" (30 mil) Application, Add</i>	3.01	
02 83 19 13-0069	SF		Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 12/12 light Chemical Stripping Of Lead Contaminated Material	36.78	
			<i>For 0.025" (25 mil) Application, Add</i>	2.02	
			<i>For 0.03" (30 mil) Application, Add</i>	3.13	
02 83 19 13-0070	SF		Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 14/14 Light, Chemical Stripping Of Lead Contaminated Material	37.62	
			<i>For 0.025" (25 mil) Application, Add</i>	2.06	
			<i>For 0.03" (30 mil) Application, Add</i>	3.20	
02 83 19 13-0071	SF		Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 16/16 Light Chemical Stripping Of Lead Contaminated Material	38.47	
			<i>For 0.025" (25 mil) Application, Add</i>	2.10	
			<i>For 0.03" (30 mil) Application, Add</i>	3.26	
02 83 19 13-0072	SF		Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 20/20 Light, Chemical Stripping Of Lead Contaminated Material	39.27	
			<i>For 0.025" (25 mil) Application, Add</i>	2.14	
			<i>For 0.03" (30 mil) Application, Add</i>	3.32	
02 83 19 13-0073	SF		Metal Stairs, Chemical Stripping Of Lead Contaminated Material	51.89	
			<i>For 0.025" (25 mil) Application, Add</i>	2.94	
			<i>For 0.03" (30 mil) Application, Add</i>	4.64	
			<i>For 0.125" (125 mil) Application, Add</i>	23.47	
02 83 19 13-0074	LF		Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material	9.02	
			<i>For 0.025" (25 mil) Application, Add</i>	0.58	
			<i>For 0.03" (30 mil) Application, Add</i>	0.96	
			<i>For 0.125" (125 mil) Application, Add</i>	6.22	
02 83 19 13-0075	SF		Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material	26.38	
			Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
			<i>For 0.025" (25 mil) Application, Add</i>	1.58	
			<i>For 0.03" (30 mil) Application, Add</i>	2.54	
			<i>For 0.125" (125 mil) Application, Add</i>	14.46	
02 83 19 13-0076	SF		Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material	28.84	
			<i>For 0.025" (25 mil) Application, Add</i>	1.66	
			<i>For 0.03" (30 mil) Application, Add</i>	2.63	
			<i>For 0.125" (125 mil) Application, Add</i>	13.75	
02 83 19 13-0077			Demolish Lead Contaminated Material <small>(02 83 19 13)</small>		
			Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0078	SF		Demolish Ceiling Suspension System, Lead Contaminated Material	2.28	
02 83 19 13-0079	SF		Demolish Suspended Ceiling System And Tile, Lead Contaminated Material	1.32	
02 83 19 13-0080	SF		Demolish Acoustical Ceiling Tile, Lead Contaminated Material	0.85	
02 83 19 13-0081	SF		Demolish Metal Pan Grid System, Lead Contaminated Material	1.32	
02 83 19 13-0082	EA		Demolish Ceiling And Recessed Light Fixtures, Lead Contaminated Material	63.62	
02 83 19 13-0083	EA		Demolish >2' x 4' Light Fixtures, Lead Contaminated Material	84.39	
02 83 19 13-0084	SF		Demolish Non Load Bearing Partitions Of Plaster Or Stucco, Lath And Studs, Lead Contaminated Material	9.42	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0085	SF			Demolish Non Load Bearing Partitions Of Gypsum Board And Studs, Lead Contaminated Material	5.28	
02 83 19 13-0086	SF			Demolish Brick, Lead Contaminated Material	3.97	
02 83 19 13-0087	SF			Demolish Concrete Block, Lead Contaminated Material	5.11	
02 83 19 13-0088	SF			Demolish Tile, Lead Contaminated Material	3.85	
02 83 19 13-0089	SF			Demolish Up To 6" Concrete, Lead Contaminated Material	5.80	
02 83 19 13-0090	IN			Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	4.52	
02 83 19 13-0091	IN			Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	6.03	
02 83 19 13-0092	LF			Demolish Wood Balustrades And Railings, Lead Contaminated Material	6.59	
02 83 19 13-0093	LF			Demolish Up To 6" Wide Baseboard, Lead Contaminated Material	1.71	
02 83 19 13-0094	LF			Demolish >6" To 12" Wide Baseboard, Lead Contaminated Material	2.15	
02 83 19 13-0095	LF			Demolish Base Shoe Molding, Lead Contaminated Material	1.40	
02 83 19 13-0096	SF			Demolish Concrete, Lead Contaminated Material	13.12	
02 83 19 13-0097	LF			Demolish Cabinets, Lead Contaminated Material	30.57	
02 83 19 13-0098	SF			Demolish Ceilings, Gypsum Board, Lead Contaminated Material	1.74	
02 83 19 13-0099	SF			Demolish Up To 12" Diameter Columns, Lead Contaminated Material	16.93	
02 83 19 13-0100	SF			Demolish Cornice, Lead Contaminated Material	2.25	
02 83 19 13-0101	EA			Demolish Doors, Lead Contaminated Material	66.31	
02 83 19 13-0102	LF			Demolish Door And Window Trim Or Frames, Lead Contaminated Material	2.02	
02 83 19 13-0103	EA			Demolish Electrical Devices, Lead Contaminated Material	20.35	
02 83 19 13-0104	LF			Demolish Up To 1" Diameter Electrical Conduit, Lead Contaminated Material	2.61	
02 83 19 13-0105	LF			Demolish >1" To 2" Diameter Electrical Conduit, Lead Contaminated Material	4.34	
02 83 19 13-0106	SF			Demolish Wood Floors, Lead Contaminated Material	3.13	
02 83 19 13-0107	SF			Demolish Grilles, Lead Contaminated Material	3.68	
02 83 19 13-0108	EA			Demolish Hinges, Lead Contaminated Material	7.40	
02 83 19 13-0109	EA			Demolish Up To 6" Diameter Hangers, Lead Contaminated Material	15.89	
02 83 19 13-0110	LF			Demolish Up To 2" Diameter Pipes, Lead Contaminated Material	6.52	
02 83 19 13-0111	LF			Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material	9.50	
02 83 19 13-0112	LF			Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material	14.36	
02 83 19 13-0113	LF			Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material	26.50	
02 83 19 13-0114	EA			Demolish Radiators, Lead Contaminated Material	114.45	
02 83 19 13-0115	EA			Demolish Shutters, Lead Contaminated Material	44.60	
02 83 19 13-0116	SF			Demolish Siding, Lead Contaminated Material	1.77	
02 83 19 13-0117	SF			Demolish Soffit, Lead Contaminated Material	1.50	
02 83 19 13-0118	SF			Demolish Flat Steel Surfaces, Lead Contaminated Material	4.13	
02 83 19 13-0119	SF			Demolish Steel Beams, Lead Contaminated Material	4.86	
02 83 19 13-0120	SF			Demolish Trusses, Lead Contaminated Material	6.37	
02 83 19 13-0121	SF			Demolish Walls, Wood, Lead Contaminated Material	4.71	
02 83 19 13-0122	SF			Demolish Windows, Lead Contaminated Material	15.83	
02 83 19 13-0123	SF			Demolish Metal Stair, Lead Contaminated Material	7.58	
02 83 19 13-0124	LF			Demolish Single Metal Hand Rail, Lead Contaminated Material	5.57	
02 83 19 13-0125	LF			Demolish Metal Railing And Posts, Lead Contaminated Material	9.09	
02 83 19 13-0126	SF			Demolish Metal Picket Fence, Lead Contaminated Material	2.51	
02 83 19 13-0127	SF			Demolish Plywood, Lead Contaminated Material	6.85	
02 83 19 13-0128	SF			Demolish Planks (Various Sizes), Lead Contaminated Material	3.34	
02 83 19 13-0129	EA			Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material	20.89	
02 83 19 13-0130	SF			Demolish Ceramic Tile Block, Lead Contaminated Material	4.56	
02 83 19 13-0131	LF			Demolish Metal Guard Rails, Lead Contaminated Material	12.53	
02 83 19 13-0132	SF			Demolish Up To 100 SF Gypsum Wall Board, Lead Contaminated Material	6.69	
02 83 19 13-0133	SF			Demolish >100 To 500 SF Gypsum Wall Board, Lead Contaminated Material	4.80	
02 83 19 13-0134	SF			Demolish >500 To 2,500 SF Gypsum Wall Board, Lead Contaminated Material	3.76	
02 83 19 13-0135	SF			Demolish >2,500 SF Gypsum Wall Board, Lead Contaminated Material	2.92	
02 83 19 13-0136	SF			Demolish Up To 100 SF Plaster/Stucco, Lead Contaminated Material	20.89	
02 83 19 13-0137	SF			Demolish >100 To 500 SF Plaster/Stucco, Lead Contaminated Material	14.86	
02 83 19 13-0138	SF			Demolish >500 To 2,500 SF Plaster/Stucco, Lead Contaminated Material	11.14	
02 83 19 13-0139	SF			Demolish >2,500 To 10,000 SF Plaster/Stucco, Lead Contaminated Material	8.36	
02 83 19 13-0140	Wet Sanding/Scraping Of Lead Contaminated Material (02 83 19 13)					
	Note: Remove loose, flaking lead-based paint to prepare for painting					
02 83 19 13-0141	SF			Wet Sand/Scrape Of Lead Contaminated Material To Prepare For Painting	3.19	
02 83 19 13-0142	Lead Abatement Encapsulation (02 83 19 13)					
	Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.					
02 83 19 13-0143	SF			Balustrades, Lead Abatement Encapsulation	5.82	
02 83 19 13-0144	LF			Up To 6" Wide, Baseboard, Lead Abatement Encapsulation	5.73	
02 83 19 13-0145	LF			>6" To 12" Wide, Baseboard, Lead Abatement Encapsulation	7.80	
02 83 19 13-0146	SF			Brick, Concrete Block, Concrete, Lead Abatement Encapsulation	3.76	
02 83 19 13-0147	SF			Ornate Cabinets, Lead Abatement Encapsulation	8.41	
02 83 19 13-0148	SF			Simple Design Cabinets, Lead Abatement Encapsulation	6.86	
02 83 19 13-0149	SF			Drywall Ceilings, Lead Abatement Encapsulation	2.38	
02 83 19 13-0150	SF			Wood Ceilings, Lead Abatement Encapsulation	2.88	
02 83 19 13-0151	SF			Acoustical And Popcorn Ceilings, Lead Abatement Encapsulation	2.67	
02 83 19 13-0152	SF			Columns, Lead Abatement Encapsulation	4.54	
02 83 19 13-0153	SF			Doors, Lead Abatement Encapsulation	8.61	
02 83 19 13-0154	LF			Up To 2" Electrical Conduit, Lead Abatement Encapsulation	3.80	
02 83 19 13-0155	SF			Picket Fence (Brush), Lead Abatement Encapsulation	2.73	
02 83 19 13-0156	SF			Wood Floors (Roller), Lead Abatement Encapsulation	2.29	
02 83 19 13-0157	SF			Grilles, Vents, Lead Abatement Encapsulation	6.28	
02 83 19 13-0158	LF			Gutters And Downspouts, Lead Abatement Encapsulation	5.82	

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0159 EA Hangers, Lead Abatement Encapsulation.....	49.23	
02 83 19 13-0160 LF Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	3.54	
02 83 19 13-0161 LF >4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	5.14	
02 83 19 13-0162 LF >8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	7.98	
02 83 19 13-0163 LF >12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	11.77	
02 83 19 13-0164 EA Radiators, Lead Abatement Encapsulation.....	128.73	
02 83 19 13-0165 EA Up To 6' Shutters, Lead Abatement Encapsulation.....	183.20	
02 83 19 13-0166 SF Siding, Lead Abatement Encapsulation.....	3.25	
02 83 19 13-0167 SF Up To 12" Soffit, Lead Abatement Encapsulation.....	4.54	
02 83 19 13-0168 SF Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation.....	3.76	
02 83 19 13-0169 SF Steel Beams And Metal Decks, Lead Abatement Encapsulation.....	4.90	
02 83 19 13-0170 SF Trusses, Lead Abatement Encapsulation.....	4.90	
02 83 19 13-0171 SF Drywall Walls, Lead Abatement Encapsulation.....	2.12	
02 83 19 13-0172 SF Wood Walls, Lead Abatement Encapsulation.....	2.61	
02 83 19 13-0173 EA Window Without Grille, Lead Abatement Encapsulation.....	109.27	
02 83 19 13-0174 EA Window With Grille, Lead Abatement Encapsulation.....	140.36	
02 83 19 13-0175 LF Wood Door Frames And Trim, Lead Abatement Encapsulation.....	3.31	
02 83 19 13-0176 LF Steel Lintels, Lead Abatement Encapsulation.....	3.82	

02 83 33 Removal and Disposal of Material Containing Lead (02 83)**02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)****02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)**

02 83 33 13-0002 SF High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent.....	0.27	
02 83 33 13-0003 SF High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate.....	0.27	
02 83 33 13-0004 SF High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting.....	1.32	

02 84 Polychlorinated Biphenyl Remediation (02 80)**02 84 16 Handling of Lighting Ballasts and Lamps Containing PBCs and Mercury (02 84)****02 84 16 00-0001 Removal Of TSCA-Exempt PCB And Non-PCB Ballasts From Demolished Fixtures (02 84 16)**

Note: Includes removal of TSCA-exempt PCB and Non-PCB ballast from demolished lighting fixture and placing ballast in an approved container for recycling.

02 84 16 00-0002 EA Removal Of TSCA-Exempt Polychlorinated Biphenyl (PCB) And Non-PCB Ballast From A Demolished Fixture For Recycling.....	11.85	
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02 84 16 00-0003 Recycle TSCA-Exempt PCB And Non-PCB Ballasts (02 84 16)

Note: Non leaking ballasts. Includes containers, shipping costs and recycling fees. Excludes ballast removal.

02 84 16 00-0004 EA Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	1.69	
02 84 16 00-0005 EA Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	2.54	
02 84 16 00-0006 EA Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	7.91	
02 84 16 00-0007 EA Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	18.07	

02 84 16 00-0008 Disposal Of Leaking PCB And Non-PCB Ballasts (02 84 16)

Note: Disposal at an EPA approved facility. Includes containers, shipping costs and disposal fees. Excludes ballast removal.

02 84 16 00-0009 EA Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	4.24	
02 84 16 00-0010 EA Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	6.35	
02 84 16 00-0011 EA Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	11.86	
02 84 16 00-0012 EA Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	27.11	

02 84 33 Removal and Disposal of Polychlorinated Biphenyls (02 84)**02 84 33 00-0001 Removal And Disposal Of Polychlorinated Biphenyls Oil Filled Transformers (02 84 33)**

Note: Includes disposal in approved container, rigging, manifesting, hauling, etc.

02 84 33 00-0002 EA Removal And Disposal Of Transformers 2.5/3.5 KVA, Non Polychlorinated Biphenyl (PCB).....	3,173.07	
Note: Includes disposal costs.		
02 84 33 00-0003 EA Removal And Disposal Of Transformers 20 KVA, Non Polychlorinated Biphenyl (PCB).....	4,941.72	
Note: Includes disposal costs.		
02 84 33 00-0004 EA Removal And Disposal Of Switch, Non Polychlorinated Biphenyl (PCB).....	1,467.57	
02 84 33 00-0005 EA Removal And Disposal Of Transformers 2.5/3.5 KVA, Polychlorinated Biphenyl (PCB).....	5,839.30	
Note: Includes disposal costs.		
02 84 33 00-0006 EA Removal And Disposal Of Switch, Polychlorinated Biphenyl (PCB).....	2,525.35	
02 84 33 00-0007 EA Removal And Disposal Of Transformers 20 KVA, Polychlorinated Biphenyl (PCB).....	9,140.03	
Note: Includes disposal costs.		

02 87 Bio-Hazard Material Remediation (02 80)**02 87 13 Mold Remediation (02 87)**

Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which tasks apply. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 100 LF or SF (Up to 25 LF for Mold Abatement pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

02 87 13 33 Removal and Disposal of Materials with Mold (02 87 13)

02 87 13 33-0001	Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal (02 87 13 33)	
	Note: Treat fittings as additional lf of insulation.	
02 87 13 33-0002	Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0001)	
	Note: Diameter is outer size of insulation.	
02 87 13 33-0003	Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)	
	Note: Excludes encased fittings.	
02 87 13 33-0004	SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	636.01
02 87 13 33-0005	LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	24.84
02 87 13 33-0006	LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	18.90
02 87 13 33-0007	LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	14.43
02 87 13 33-0008	LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	11.10
02 87 13 33-0009	LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	9.79
02 87 13 33-0010	>6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)	
02 87 13 33-0011	SET Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	700.05
02 87 13 33-0012	LF >20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	31.60
02 87 13 33-0013	LF >250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	24.77
02 87 13 33-0014	LF >500 To 2,500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	19.64
02 87 13 33-0015	LF >2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	15.80
02 87 13 33-0016	LF >10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	14.30
02 87 13 33-0017	Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)	
02 87 13 33-0018	Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal (02 87 13 33-0017)	
02 87 13 33-0019	SET Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	668.03
02 87 13 33-0020	SF >50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	14.73
02 87 13 33-0021	SF >500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	11.31
02 87 13 33-0022	SF >2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal	8.75
02 87 13 33-0023	SF >10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	6.96
02 87 13 33-0024	Surfacing Material, Mold Abatement And Disposal (02 87 13 33)	
	Note: e.g. fireproofing, acoustical plaster, etc.	
02 87 13 33-0025	Stucco, Mold Abatement And Disposal (02 87 13 33-0024)	
	Note: Remove surface coat from brown coat or remove entire assembly, including lath.	
02 87 13 33-0026	SET Up To 50 SF, Stucco, Mold Abatement And Disposal	650.25
02 87 13 33-0027	SF >50 To 500 SF, Stucco, Mold Abatement And Disposal	14.37
02 87 13 33-0028	SF >500 To 2,500 SF, Stucco, Mold Abatement And Disposal	10.95
02 87 13 33-0029	SF >2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	8.39
02 87 13 33-0030	SF >10,000 SF, Stucco, Mold Abatement And Disposal	6.49
02 87 13 33-0031	Acoustical Plaster, Mold Abatement And Disposal (02 87 13 33-0024)	
	Note: Remove surface coat from brown coat or remove entire assembly, including lath.	
02 87 13 33-0032	SET Up To 50 SF, Acoustical Plaster, Mold Abatement And Disposal	650.25
02 87 13 33-0033	SF >50 To 500 SF, Acoustical Plaster, Mold Abatement And Disposal	14.37
02 87 13 33-0034	SF >500 To 2,500 SF, Acoustical Plaster, Mold Abatement And Disposal	10.95
02 87 13 33-0035	SF >2,500 To 10,000 SF, Acoustical Plaster, Mold Abatement And Disposal.....	8.39
02 87 13 33-0036	SF >10,000 SF, Acoustical Plaster, Mold Abatement And Disposal.....	6.49
02 87 13 33-0037	Gypsum Board, Mold Abatement And Disposal (02 87 13 33-0024)	
02 87 13 33-0038	SET Up To 100 SF, Gypsum Board, Mold Abatement And Disposal	685.83
02 87 13 33-0039	SF >100 To 500 SF, Gypsum Board, Mold Abatement And Disposal	5.13
02 87 13 33-0040	SF >500 To 2,500 SF, Gypsum Board, Mold Abatement And Disposal	4.17
02 87 13 33-0041	SF >2,500 To 10,000 SF, Gypsum Board, Mold Abatement And Disposal	3.39
02 87 13 33-0042	SF >10,000 SF, Gypsum Board, Mold Abatement And Disposal	2.63
02 87 13 33-0043	Fireproofing, Mold Abatement And Disposal (02 87 13 33-0024)	
	Note: Exposed surface area, includes associated overspray.	
02 87 13 33-0044	SET Up To 50 SF, Fireproofing, Mold Abatement And Disposal	668.03
02 87 13 33-0045	SF >50 To 500 SF, Fireproofing, Mold Abatement And Disposal	19.89
02 87 13 33-0046	SF >500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	15.21
02 87 13 33-0047	SF >2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	11.67
02 87 13 33-0048	SF >10,000 SF, Fireproofing, Mold Abatement And Disposal	9.02

02 Existing Conditions**02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 87 13 33-0049	Flooring, Mold Abatement And Disposal (02 87 13 33)		
	Note: Includes cove base.		
02 87 13 33-0050	Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0049)		
02 87 13 33-0051	Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0050)		
	Note: Single layer or first of multiple layers.		
02 87 13 33-0052	SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	685.83	
02 87 13 33-0053	SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	5.10	
	For Each Additional Layer, Add	1.28	
02 87 13 33-0054	SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	3.08	
	For Each Additional Layer, Add	0.77	
02 87 13 33-0055	SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	1.99	
	For Each Additional Layer, Add	0.50	
02 87 13 33-0056	SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	1.66	
	For Each Additional Layer, Add	0.42	
02 87 13 33-0057	Carpet, Mold Abatement And Disposal (02 87 13 33-0049)		
02 87 13 33-0058	Carpet, Glue Down, Mold Abatement And Disposal (02 87 13 33-0057)		
02 87 13 33-0059	SET Up To 100 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	685.83	
02 87 13 33-0060	SF >100 To 500 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	4.32	
02 87 13 33-0061	SF >500 To 2,500 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	2.90	
02 87 13 33-0062	SF >2,500 To 10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	2.11	
02 87 13 33-0063	SF >10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	1.74	
02 87 13 33-0064	Carpet, Padded With Tack Strips, Mold Abatement And Disposal (02 87 13 33-0057)		
02 87 13 33-0065	SET Up To 100 SF, Carpet And Pad, Mold Abatement And Disposal.....	685.83	
	Note: Includes tack strips.		
02 87 13 33-0066	SF >100 To 500 SF, Carpet And Pad, Mold Abatement And Disposal.....	4.81	
	Note: Includes tack strips.		
02 87 13 33-0067	SF >500 To 2,500 SF, Carpet And Pad, Mold Abatement And Disposal.....	3.63	
	Note: Includes tack strips.		
02 87 13 33-0068	SF >2,500 To 10,000 SF, Carpet And Pad, Mold Abatement And Disposal.....	2.99	
	Note: Includes tack strips.		
02 87 13 33-0069	SF >10,000 SF, Carpet And Pad, Mold Abatement And Disposal.....	2.42	
	Note: Includes tack strips.		
02 87 13 33-0070	Subflooring, Mold Abatement And Disposal (02 87 13 33-0049)		
02 87 13 33-0071	SET Up To 75 SF, Subflooring, Mold Abatement And Disposal.....	668.03	
02 87 13 33-0072	SF >75 To 500 SF, Subflooring, Mold Abatement And Disposal.....	5.79	
02 87 13 33-0073	SF >500 To 2,500 SF, Subflooring, Mold Abatement And Disposal.....	3.88	
02 87 13 33-0074	SF >2,500 To 10,000 SF, Subflooring, Mold Abatement And Disposal.....	2.54	
02 87 13 33-0075	SF >10,000 SF, Subflooring, Mold Abatement And Disposal.....	1.81	
02 87 13 33-0076	Siding, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0077	Interior Paneling, Mold Abatement And Disposal (02 87 13 33-0076)		
	Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0078	SET Up To 100 SF, Interior Paneling, Mold Abatement And Disposal.....	685.83	
	Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0079	SF >100 To 500 SF, Interior Paneling, Mold Abatement And Disposal.....	5.08	
	Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0080	SF >500 To 2,500 SF, Interior Paneling, Mold Abatement And Disposal.....	3.72	
	Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0081	SF >2,500 To 10,000 SF, Interior Paneling, Mold Abatement And Disposal.....	2.38	
	Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0082	SF >10,000 SF, Interior Paneling, Mold Abatement And Disposal.....	1.94	
	Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0083	Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0076)		
02 87 13 33-0084	SET Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal.....	685.83	
02 87 13 33-0085	SF >100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal.....	6.20	
02 87 13 33-0086	SF >500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal.....	4.46	
02 87 13 33-0087	SF >2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal.....	3.16	
02 87 13 33-0088	SF >10,000 SF, Exterior Siding Board, Mold Abatement And Disposal.....	2.90	
02 87 13 33-0089	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0090	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0089)		
02 87 13 33-0091	SET Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal.....	700.05	
02 87 13 33-0092	CF >20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal.....	25.53	
02 87 13 33-0093	CF >100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal.....	18.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0094 CF >250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	14.90	
02 87 13 33-0095 CF >500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	12.77	
02 87 13 33-0096 CF >2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	8.92	
02 87 13 33-0097 CF >10,000 CF, Contaminated Debris, Mold Abatement And Disposal	8.45	
02 87 13 33-0098 Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0099 Wood Studs, Mold Abatement And Disposal (02 87 13 33-0098)		
Note: 2" x 4" or 2" x 6" exposed studs in walls. Excludes surfacing material.		
02 87 13 33-0100 SET Up To 100 LF, Wood Studs, Mold Abatement And Disposal	342.90	
02 87 13 33-0101 LF >100 To 500 LF, Wood Studs, Mold Abatement And Disposal	2.84	
02 87 13 33-0102 LF >500 To 2,500 LF, Wood Studs, Mold Abatement And Disposal	2.17	
02 87 13 33-0103 LF >2,500 To 10,000 LF, Wood Studs, Mold Abatement And Disposal	1.76	
02 87 13 33-0104 LF >10,000 LF, Wood Studs, Mold Abatement And Disposal	1.39	
02 87 13 33-0105 Ceiling Tile, Mold Abatement And Disposal (02 87 13 33-0098)		
Note: e.g. grid, spline, or glued on; 12" x 12" to 2' x 4'.		
02 87 13 33-0106 SET Up To 100 SF, Ceiling Tile, Mold Abatement And Disposal	685.83	
02 87 13 33-0107 SF >100 To 1,000 SF, Ceiling Tile, Mold Abatement And Disposal	8.39	
02 87 13 33-0108 SF >1,000 To 2,500 SF, Ceiling Tile, Mold Abatement And Disposal	4.21	
02 87 13 33-0109 SF >2,500 To 10,000 SF, Ceiling Tile, Mold Abatement And Disposal	3.16	
02 87 13 33-0110 SF >10,000 SF, Ceiling Tile, Mold Abatement And Disposal	2.90	
02 87 13 33-0111 Caulking, Mold Abatement And Disposal (02 87 13 33-0098)		
02 87 13 33-0112 SET Up To 20 LF, Caulking, Mold Abatement And Disposal	154.85	
02 87 13 33-0113 LF >20 To 50 LF, Caulking, Mold Abatement And Disposal	3.14	
02 87 13 33-0114 LF >50 To 100 LF, Caulking, Mold Abatement And Disposal	2.25	
02 87 13 33-0115 LF >100 To 250 LF, Caulking, Mold Abatement And Disposal	1.72	
02 87 13 33-0116 LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.29	
02 87 13 33-0117 LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	1.05	
02 87 13 33-0118 LF >2,500 LF, Caulking, Mold Abatement And Disposal	0.91	
02 87 13 33-0119 Wipe Down Walls, Ceilings And Floors (02 87 13 33-0098)		
02 87 13 33-0120 CSF Wipe Down Floors With Mild Bleach Solution	17.09	
For >25 To 50, Deduct	-1.71	
For >50 To 200, Deduct	-4.27	
For >200, Deduct	-6.83	
02 87 13 33-0121 CSF Wipe Down Walls With Mild Bleach Solution	20.10	
For >25 To 50, Deduct	-2.01	
For >50 To 200, Deduct	-5.02	
For >200, Deduct	-8.03	
02 87 13 33-0122 CSF Wipe Down Ceilings With Mild Bleach Solution	22.87	
For >25 To 50, Deduct	-2.29	
For >50 To 200, Deduct	-5.71	
For >200, Deduct	-9.14	
02 87 13 33-0123 CSF Wipe Down Countertops With Mild Bleach Solution	18.64	
For >25 To 50, Deduct	-1.86	
02 87 13 33-0124 CSF Wipe Down Other Surfaces With Mild Bleach Solution	23.66	
For >25 To 50, Deduct	-2.36	
For >50 To 200, Deduct	-5.91	
For >200, Deduct	-9.46	
02 87 13 33-0125 Cabinets (02 87 13 33-0098)		
02 87 13 33-0126 SET Up To 10 LF, Base Cabinet, Mold Abatement And Disposal	845.15	
02 87 13 33-0127 LF >10 To 20 LF, Base Cabinet, Mold Abatement And Disposal	88.19	
02 87 13 33-0128 LF >20 LF, Base Cabinet, Mold Abatement And Disposal	69.78	
02 87 13 33-0129 SET Up To 10 LF, Wall Cabinet, Mold Abatement And Disposal	717.08	
02 87 13 33-0130 LF >10 To 20 LF, Wall Cabinet, Mold Abatement And Disposal	68.03	
02 87 13 33-0131 LF >20 LF, Wall Cabinet, Mold Abatement And Disposal	49.63	
02 87 16 Excrement Removal (02 87)		
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.		
02 87 16 13 Bird Excrement Removal (02 87 16)		
02 87 16 13-0001 Bird Waste Removal (02 87 16 13)		
Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.		
02 87 16 13-0002 EA Up To 10 SF Bird Waste Removal, Up To 3" Thickness	614.67	
For Work In Restricted Working Space, Add	184.40	

02 Existing Conditions**02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 16 13-0003 SF >10 To 500 SF Bird Waste Removal, Up To 3" Thickness	10.24	
For Work In Restricted Working Space, Add	3.07	
02 87 16 13-0004 SF >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness	9.32	
For Work In Restricted Working Space, Add	2.80	
02 87 16 13-0005 SF >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness	8.47	
For Work In Restricted Working Space, Add	2.54	
02 87 16 13-0006 SF >10,000 SF Bird Waste Removal, Up To 3" Thickness.....	7.70	
For Work In Restricted Working Space, Add	2.31	
02 87 19 Bio-Hazard and Infectious Disease Control Remediation (02 87)		
02 87 19 00-0001 Temporary Barriers (02 87 19)		
02 87 19 00-0002 Adjustable Barrier Panel System For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
Note: Panels are opal or transparent. Includes self leveling floor channel, 1/4" foam gasket to conform to ceiling, edge gaskets, grid clips, and cam locks.		
02 87 19 00-0003 EA 4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4000).....	996.20	
02 87 19 00-0004 EA 3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4001).....	945.75	
02 87 19 00-0005 EA 2' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4002).....	743.94	
02 87 19 00-0006 EA 2' Wide x 7'-8" To 10' High With High Efficiency Particulate Air (HEPA) Filtered Air Discharge Port, Fire Rated Containment Panel Assembly (Edge Guard 4002.1)	861.66	
02 87 19 00-0007 EA 6" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4005)	456.06	
02 87 19 00-0008 EA 12" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4006)	489.69	
02 87 19 00-0009 EA 3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 32" Door (Edge Guard 4010).....	1,525.93	
Note: Includes a hydraulic closer and a lever style lockset standard.		
02 87 19 00-0010 EA 4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 44" Door (Edge Guard 4003).....	1,694.10	
Note: Includes a hydraulic closer and a lever style lockset standard.		
02 87 19 00-0011 EA 4'-4" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 48" Door (Edge Guard 4008)	2,030.44	
Note: Includes a hydraulic closer and a lever style lockset standard.		
02 87 19 00-0012 EA 7'-8" To 10' High, Hinged Corner Assembly (Edge Guard 4004)	334.49	
02 87 19 00-0013 EA 7'-8" To 10' High, Outside Corner Post (Edge Guard 4007).....	275.64	
02 87 19 00-0014 EA 7'-8" To 10' High, "T" Post Corner Assembly (Edge Guard 4009).....	275.64	
02 87 19 00-0015 EA Closure Strips (Edge Guard 3003).....	18.60	
Note: To seal panels to existing walls		
02 87 19 00-0016 EA Digital Differential Pressure Gauge Kit (Edge Guard 3005).....	468.31	
02 87 19 00-0017 Temporary Sheeting For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
Note: Includes removal and disposal in approved landfill after use.		
02 87 19 00-0018 SF 6 Mil Plastic Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control	0.57	
02 87 19 00-0019 SF 6 Mil Plastic Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control	0.76	
02 87 19 00-0020 SF 6 Mil Plastic Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control.....	1.02	
02 87 19 00-0021 SF 6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control	0.68	
02 87 19 00-0022 SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control	0.87	
02 87 19 00-0023 SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control	1.13	
02 87 19 00-0024 Temporary Floor Protection For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
Note: Includes removal after use.		
02 87 19 00-0025 SF 1/8" Thick, Masonite Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	1.87	
02 87 19 00-0026 SF 1/2" Thick, Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	1.93	
02 87 19 00-0027 SF 3/4" Thick, Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	2.26	
02 87 19 00-0028 Temporary Stud Wall For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
Note: Includes removal after use.		
02 87 19 00-0029 SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	6.48	
02 87 19 00-0030 SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	8.85	
02 87 19 00-0031 SF 5/8" Type Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	6.61	
02 87 19 00-0032 SF 5/8" Type Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	9.12	
02 87 19 00-0033 SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	3.88	
02 87 19 00-0034 Isolation Barriers For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
02 87 19 00-0035 GSF Tent Construction Utilizing Two Layers Of 6 Mil Fire Rated Plastic Sheeting For Bio-Hazard And Infectious Disease Control	25.50	
Note: Includes support frame of 2x4s or PVC piping (ground SF) up to 6' to construct stand-alone tents (floor, walls and ceiling) with airlock.		
02 87 19 00-0036 GSF Relocate Tent Construction To Different Area	2.92	
02 87 19 00-0037 Plexiglass Barriers For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
02 87 19 00-0038 SF 3/8" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control.....	21.69	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	02 87 19 00-0039	SF		1/2" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control.....	25.62	
	02 87 19 00-0040	SF		3/4" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control.....	36.07	
	02 87 19 00-0041	PR		Install Pair Of 8" Diameter Glove Iris Port In Barrier For Bio-Hazard And Infectious Disease Control.....	1,427.61	
				Note: Excludes gloves.		
	02 87 19 00-0042	PR		Pair Of 8" Diameter Economy Sleeved Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control.....	511.69	
				Note: For installation in glove iris port.		
	02 87 19 00-0043	PR		Pair Of 8" Diameter Bellows Type Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control.....	815.71	
				Note: For installation in glove iris port.		
	02 87 19 00-0044	EA		5-5/16" Diameter, Satin Anodized Aluminum, No-Draft Speak-Thru In Barrier For Bio-Hazard And Infectious Disease.....	149.00	
				Note: Includes gaskets and mounting screws for installation on glass from 1/4" (6 mm) to 1/2" (12 mm) thick. Require a minimum hole diameter of 2-1/4" (57 mm), and will cover holes up to 4-1/4" (108 mm). Recommended hole diameter is 3-1/2" (89 mm).		
	02 87 19 00-0045			Temporary Portable And Mobile Trailers (02 87 19)		
	02 87 19 00-0046			Trailer Delivery (02 87 19 00-0045)		
	02 87 19 00-0047	EA		Deliver Trailer Within 25 Miles.....	1,207.10	
	02 87 19 00-0048			Portable And Mobile Trailers, Purchase (02 87 19 00-0045)		
				Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, & phone jacks. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.		
	02 87 19 00-0049	EA		8' x 24' Mobile Trailer With Toilet, Purchase.....	12,533.08	
				For Tie-Downs, Add	124.53	
	02 87 19 00-0050	EA		8' x 32' Mobile Trailer With Toilet, Purchase.....	17,704.60	
				For Tie-Downs, Add	124.53	
	02 87 19 00-0051	EA		10' x 36' Mobile Trailer With Toilet, Purchase.....	25,259.16	
				For Tie-Downs, Add	124.53	
	02 87 19 00-0052	EA		10' x 44' Mobile Trailer With Toilet, Purchase.....	31,561.71	
				For Tie-Downs, Add	124.53	
	02 87 19 00-0053	EA		10' x 50' Mobile Trailer With Toilet, Purchase.....	35,881.96	
				For Tie-Downs, Add	124.53	
	02 87 19 00-0054	EA		12' x 50' Mobile Trailer With Toilet, Purchase.....	37,723.64	
				For Tie-Downs, Add	124.53	
	02 87 19 00-0055	EA		12' x 60' Mobile Trailer With Toilet, Purchase.....	41,974.92	
				For Tie-Downs, Add	124.53	
	02 87 19 00-0056			Accessories For Portable And Mobile Trailers (02 87 19 00-0045)		
	02 87 19 00-0057			Skirting (02 87 19 00-0056)		
				Note: Includes 2" x 4" wood framing 16" on center.		
	02 87 19 00-0058	SF		1'-8" High Vinyl Covered Skirt.....	5.27	2.07
	02 87 19 00-0059	SF		3' High Vinyl Covered Skirt.....	7.72	3.42
	02 87 19 00-0060			Aluminum Modular Access Ramp (02 87 19 00-0056)		
				Note: Includes picketed guardrails, inside grabrails, legs and hardware.		
	02 87 19 00-0061	EA		Up To 35" High, Aluminum Modular Access Ramp.....	3,664.75	39.67
	02 87 19 00-0062			Aluminum Modular Stairs (02 87 19 00-0056)		
				Note: Excludes earthwork		
	02 87 19 00-0063	EA		Aluminum Steps For Mobile Trailers.....	1,013.20	
	02 87 19 00-0064			Decontamination Chambers For Bio-Hazard And Infectious Disease Control (02 87 19)		
				Note: Includes removal after use.		
	02 87 19 00-0065	EA		Portable Personnel Decontamination Wash Facility (3 Stage) For Bio-Hazard And Infectious Disease Control.....	980.66	
				Note: Includes connection to negative air system.		
	02 87 19 00-0066	EA		Portable Personnel Decontamination Wash Facility (5 Stage) For Bio-Hazard And Infectious Disease Control.....	1,156.02	
				Note: Includes connection to negative air system.		
	02 87 19 00-0067	EA		Portable Waste Decontamination Unit For Bio-Hazard And Infectious Disease Control.....	599.93	
				Note: Includes connection to negative air system.		
	02 87 19 00-0068			Bio-Hazard And Infectious Disease Control Cleaning, Level 2 (02 87 19)		
				Note: Includes worker personal protection equipment suites, gloves and masks. Level 1 Biohazard - Minor bacteria and viruses as well as non-infectious bacteria. Microbes are not known to cause disease in healthy hosts and pose minimal risk to workers and the environment. Level 2 Biohazard - Bacteria and viruses that cause mild disease or are difficult to contract. Microbes are typically indigenous and are associated with diseases of varying severity. They pose moderate risk to workers and the environment. Level 3 Biohazard - Microbes are indigenous or exotic and cause serious or potential lethal diseases through respiratory transmission. Disposal of materials used to wipe down surfaces in approved landfill after use. See CSI section 02 87 19 00-0138 for disposal of material into approved landfill.		
	02 87 19 00-0069			Bio-Hazard And Infectious Disease Control Cleaning Mobilization (02 87 19 00-0068)		
	02 87 19 00-0070	EA		Bio-Hazard And Infectious Disease Control Mobilization And Set-Up.....	383.58	
				Note: Mobilization and set-up minimum for each site location.		

02 Existing Conditions**02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0071 Bio-Hazard And Infectious Disease Control Cleaning Of Surfaces <small>(02 87 19 00-0068)</small>		
Note: Includes electrostatic spraying of surfaces with mild bleach, wet mop/wipe, disinfect and high efficiency particulate air (HEPA) vacuum surfaces		
02 87 19 00-0072 CSF Cleaning Of Floors For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	28.44	
For >25 To 50, Deduct	-2.84	
For >50 To 200, Deduct	-5.68	
For >200, Deduct	-8.52	
For Cleaning Surfaces With Goldshield® GS5, Add	14.01	
For Level 1 Biohazard Cleaning, Deduct	-5.68	
For Level 3 Biohazard Cleaning, Add	9.38	
02 87 19 00-0073 CSF Cleaning Of Walls For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	33.46	
For >25 To 50, Deduct	-3.34	
For >50 To 200, Deduct	-6.69	
For >200, Deduct	-10.03	
For Cleaning Surfaces With Goldshield® GS5, Add	14.01	
For Level 1 Biohazard Cleaning, Deduct	-6.69	
For Level 3 Biohazard Cleaning, Add	11.03	
02 87 19 00-0074 CSF Cleaning Of Ceilings For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	38.06	
For >25 To 50, Deduct	-3.80	
For >50 To 200, Deduct	-7.61	
For >200, Deduct	-11.41	
For Cleaning Surfaces With Goldshield® GS5, Add	14.01	
For Level 1 Biohazard Cleaning, Deduct	-7.61	
For Level 3 Biohazard Cleaning, Add	12.55	
02 87 19 00-0075 CSF Cleaning Of Countertops For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	31.02	
For Cleaning Surfaces With Goldshield® GS5, Add	14.01	
For >5 To 10, Deduct	-1.55	
For >10 To 50, Deduct	-3.10	
For >50, Deduct	-6.20	
For Level 1 Biohazard Cleaning, Deduct	-6.20	
For Level 3 Biohazard Cleaning, Add	10.23	
02 87 19 00-0076 CSF Cleaning Of Other Surfaces For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	39.37	
For >25 To 50, Deduct	-3.93	
For >50 To 200, Deduct	-7.87	
For >200, Deduct	-11.80	
For Cleaning Surfaces With Goldshield® GS5, Add	14.01	
For Level 1 Biohazard Cleaning, Deduct	-7.87	
For Level 3 Biohazard Cleaning, Add	12.98	
02 87 19 00-0077 Bio-Hazard And Infectious Disease Control Cleaning Of Equipment And Materials <small>(02 87 19 00-0069)</small>		
Note: Includes spraying of surfaces with mild bleach, wet mop/wipe and disinfect		
02 87 19 00-0078 EA Cleaning Of Plumbing Fixture For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	73.50	
For Level 1 Biohazard Cleaning, Deduct	-14.69	
For Level 3 Biohazard Cleaning, Add	24.25	
For Cleaning Surfaces With Goldshield® GS5, Add	7.00	
02 87 19 00-0079 EA Cleaning Of Restroom Accessory For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	33.73	
For Level 1 Biohazard Cleaning, Deduct	-6.74	
For Level 3 Biohazard Cleaning, Add	11.12	
For Cleaning Surfaces With Goldshield® GS5, Add	4.67	
02 87 19 00-0080 EA Cleaning Of Kitchen Appliance For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	118.41	
For Level 1 Biohazard Cleaning, Deduct	-23.68	
For Level 3 Biohazard Cleaning, Add	39.07	
For Cleaning Surfaces With Goldshield® GS5, Add	7.00	
02 87 19 00-0081 EA Cleaning Of Electrical Switch/Receptacle For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	7.31	
For Level 1 Biohazard Cleaning, Deduct	-1.46	
For Level 3 Biohazard Cleaning, Add	2.40	
For Cleaning Surfaces With Goldshield® GS5, Add	1.40	
02 87 19 00-0082 EA Cleaning Of WorkStation, Exterior Wipe For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up	109.16	
Note: Includes desk, chair, computer, monitor(s), keyboard, mouse, lamp, drawers		
For Level 1 Biohazard Cleaning, Deduct	-21.83	
For Level 3 Biohazard Cleaning, Add	36.01	
For Cleaning Surfaces With Goldshield® GS5, Add	7.00	
02 87 19 00-0083 EA Cleaning Of Knobs, Latches, And Locks For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up	11.67	
For Level 1 Biohazard Cleaning, Deduct	-2.33	
For Level 3 Biohazard Cleaning, Add	3.84	
For Cleaning Surfaces With Goldshield® GS5, Add	1.40	
02 87 19 00-0084 Bio-Hazard And Infectious Disease Control Cleaning Of Ductwork <small>(02 87 19 00-0068)</small>		
02 87 19 00-0085 LF Up To 2 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning	4.29	
For Level 1 Biohazard Cleaning, Deduct	-0.85	
For Level 3 Biohazard Cleaning, Add	1.41	
02 87 19 00-0086 LF >2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning	5.39	
For Level 1 Biohazard Cleaning, Deduct	-1.07	
For Level 3 Biohazard Cleaning, Add	1.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0087 LF >4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning	7.22	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-1.42	
<i>For Level 3 Biohazard Cleaning, Add</i>	2.34	
02 87 19 00-0088 LF >8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning	10.22	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-2.00	
<i>For Level 3 Biohazard Cleaning, Add</i>	3.30	
02 87 19 00-0089 EA Clean Duct Coil For Bio-Hazard And Infectious Disease Control Cleaning	191.82	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-38.36	
<i>For Level 3 Biohazard Cleaning, Add</i>	63.29	
02 87 19 00-0090 SF Clean Duct Dampers And Vane Sets For Bio-Hazard And Infectious Disease Control Cleaning	13.35	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-2.66	
<i>For Level 3 Biohazard Cleaning, Add</i>	4.40	
02 87 19 00-0091 EA Clean Fan Coil Unit (FCU) Or Variable Air Volume (VAV) Unit For Bio-Hazard And Infectious Disease Control Cleaning	127.89	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-25.57	
<i>For Level 3 Biohazard Cleaning, Add</i>	42.19	
02 87 19 00-0092 EA Clean Air Handling Unit Fan And Coil For Bio-Hazard And Infectious Disease Control Cleaning	383.61	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-76.72	
<i>For Level 3 Biohazard Cleaning, Add</i>	126.58	
02 87 19 00-0093 EA Clean Grille/Diffuser/Register For Bio-Hazard And Infectious Disease Control Cleaning	31.99	
Note: Includes removal and reinstallation.		
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-6.39	
<i>For Level 3 Biohazard Cleaning, Add</i>	10.55	
02 87 19 00-0094 SF Apply Sporidicin Disinfectant To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning	0.57	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-0.10	
<i>For Level 3 Biohazard Cleaning, Add</i>	0.17	
02 87 19 00-0095 SF Apply Goldshield® G55 Antimicrobial Agent To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning	0.65	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-0.10	
<i>For Level 3 Biohazard Cleaning, Add</i>	0.17	
02 87 19 00-0096 Bio-Hazard And Infectious Disease Control Equipment Rental (02 87 19)		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0097 DAY Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up	133.93	
02 87 19 00-0098 WK Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up	570.46	
02 87 19 00-0099 MO Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up	1,597.28	
02 87 19 00-0100 DAY Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-up	150.09	
02 87 19 00-0101 WK Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-up	412.75	
02 87 19 00-0102 MO Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-up	1,125.69	
02 87 19 00-0103 DAY Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up	47.49	
02 87 19 00-0104 WK Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up	130.59	
02 87 19 00-0105 MO Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up	356.15	
02 87 19 00-0106 DAY Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up	81.38	
02 87 19 00-0107 WK Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up	334.24	
02 87 19 00-0108 MO Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up	1,009.97	
02 87 19 00-0109 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Negative Air Machine For Bio-Hazard And Infectious Disease Control Clean-up	163.70	
Note: Required if over 800 hours operation.		
02 87 19 00-0110 DAY 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	474.39	
02 87 19 00-0111 WK 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	948.78	
02 87 19 00-0112 MO 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	1,897.56	
02 87 19 00-0113 DAY 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	632.52	
02 87 19 00-0114 WK 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	1,265.04	
02 87 19 00-0115 MO 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	2,530.08	
02 87 19 00-0116 DAY 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	942.42	
02 87 19 00-0117 WK 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	1,884.85	
02 87 19 00-0118 MO 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	3,769.70	
02 87 19 00-0119 DAY 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	1,256.57	
02 87 19 00-0120 WK 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	2,513.13	
02 87 19 00-0121 MO 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	5,026.26	
02 87 19 00-0122 DAY 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	1,570.71	
02 87 19 00-0123 WK 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	3,141.42	
02 87 19 00-0124 MO 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	6,282.83	
02 87 19 00-0125 EA Set-Up 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	116.92	
Note: Includes staking down tent.		
02 87 19 00-0126 EA Set-Up 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	233.82	
Note: Includes staking down tent.		
02 87 19 00-0127 EA Set-Up 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	701.46	
Note: Includes staking down tent.		
02 87 19 00-0128 EA Set-Up 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	1,402.93	
Note: Includes staking down tent.		
02 87 19 00-0129 EA Set-Up 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	2,338.21	
Note: Includes staking down tent.		
02 87 19 00-0130 DAY Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up	103.73	

02 Existing Conditions**02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0131	WK	Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up	285.27	
02 87 19 00-0132	MO	Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up	778.00	
02 87 19 00-0133		Bio-Hazard And Infectious Disease Control Hauling By Truck ^(02 87 19) Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one-way mileage) using an appropriately sized truck.		
02 87 19 00-0134	EA	Hauling With 2-3 CY Pick-up Truck, Van Or Trailer, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up	102.33	
		Note: Each first 15 miles per trip		
		For Each Additional Mile Over First 15 Miles, Add Per Mile	1.28	
02 87 19 00-0135	EA	Hauling With 6 To 8 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Control Clean Up	171.49	
		Note: Each first 15 miles per trip		
		For Each Additional Mile Over First 15 Miles, Add Per Mile	2.14	
02 87 19 00-0136	EA	Hauling With 10 To 12 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up	177.38	
		Note: Each first 15 miles per trip		
		For Each Additional Mile Over First 15 Miles, Add Per Mile	2.22	
02 87 19 00-0137	EA	Hauling With 16' To 20', Box Or Flat Bed Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up	173.83	
		Note: Each first 15 miles per trip		
		For Each Additional Mile Over First 15 Miles, Add Per Mile	2.17	
02 87 19 00-0138		Bio-Hazard And Infectious Disease Control Disposal ^(02 87 19) Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0139	CY	Bio-Hazard And Infectious Disease Control Landfill Dump Fee	115.26	
02 87 19 00-0140		BLU-MED Response Systems® (BLU-MED) Deployable Medical Facilities™ and Emergency Shelters ^(02 87 19) Note: Includes delivery and set-up of facility, electrical, lighting and HVAC. Excludes medical equipment.		
02 87 19 00-0141	EA	20' x 32.5' Medical Shelter with 1-phase electrical, 60 Hertz (BLU-MED BM-2032.5-MS/1P)	43,551.47	
02 87 19 00-0142	EA	7' x 8' Entry Vestibule (BLU-MED BM-MS-VEST)	4,186.76	
02 87 19 00-0143	EA	Vestibule End Panel with Bump Thru Door (BLU-MED BM-7x8-VEP04)	6,927.39	
02 87 19 00-0144	SF	Sub Flooring For Medical Shelter (AKS-AB846)	6.46	
02 87 19 00-0145	EA	Upgrade To Large Roto-Mold Container, Blue (AK-ULC-5)	1,901.42	
02 87 19 00-0146	EA	Environmental Control Unit-5 Ton, 60 Hertz, Blue (AK-ECU-5T-5)	31,142.91	
02 87 19 00-0147	EA	3' ECU to Generator Pigtail, 60 Hertz (AKS-AC915)	1,085.51	
02 87 19 00-0148	EA	Negative Pressure Isolation (NPI) System (AK-NPIS-5)	49,018.43	
		Note: Including: (1) Germicidal/high efficiency particulate air (HEPA) Filter Unit; (1) Monitor/Alarm with Motorized Damper; (1) Isolation Partition for 20'-Wide Shelter; (1) NPI Accessories Case		
02 87 19 00-0149	EA	6' Step Ladder (AKS-AC595)	295.52	
02 87 19 00-0150	EA	10 Lbs Sledgehammer (AKS-AA268)	89.63	
02 87 19 00-0151		Bio-Hazard And Infectious Disease Time And Material Tasks ^(02 87 19) Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0152		Bio-Hazard And Infectious Disease Control Labor ^(02 87 19 00-0151) Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0153	HR	General Laborer For Bio-Hazard And Infectious Disease Control Clean Up	102.62	
02 87 19 00-0154	HR	Skilled Tradesman For Bio-Hazard And Infectious Disease Control Clean Up	143.97	
02 87 19 00-0155	HR	Biohazard Technician For Bio-Hazard And Infectious Disease Control Clean Up	101.25	
02 87 19 00-0156	HR	Biohazard Supervisor For Bio-Hazard And Infectious Disease Control Clean Up	121.74	
02 87 19 00-0157	HR	Project Manager For Bio-Hazard And Infectious Disease Control Clean Up	133.89	
02 87 19 00-0158		Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment ^(02 87 19 00-0151) Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0159	EA	Tyvek Coveralls For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	15.72	
02 87 19 00-0160	EA	Tyvek Coveralls With Hood, Boots, Elastic Wrists And Ankles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	25.79	
02 87 19 00-0161	PR	Polycarbonate Lens Safety Goggles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	16.71	
02 87 19 00-0162	EA	Dual Cartridge Half-Mask Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	120.96	
02 87 19 00-0163	EA	Cartridge - Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	54.92	
02 87 19 00-0164	EA	Full Face Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	369.05	
		Note: Respirator Connection Type: Bayonet, 4 pt. Full Face Suspension		
02 87 19 00-0165	EA	14-1/2" Width x 9" Height Polycarbonate Visor Faceshield For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	50.45	
		Note: Includes basic impact ratchet headgear and faceshield safety system. ANSI Z87.1-2010		
02 87 19 00-0166	EA	19" Width x 11" Height Polycarbonate Visor Attachment To Hardhat For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	91.65	
		Note: Includes clear polycarbonate crown and chin guard system for hardhat. The chin guard extends below the chin, the shield extends passed the ear, and the crown extends over the forehead to the front of the hardhat. ANSI Z87.1-2015. Excludes hardhat.		



Existing Conditions	02	02
Facility Remediation	02 80	
Bio-Hazard Material Remediation	02 87	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 87 19 00-0167	BOX	Box of 100, 5 Mil, Disposable Latex Gloves For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	28.49
02 87 19 00-0168	EA	Gloves - Rubber (Heavy Duty) For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	24.33
02 87 19 00-0169	EA	Belt-Mounted, Universal Mask, Powered Air Purifying Respirator (PAPR) System Kit For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	2,466.80

Note: Kit includes NIOSH Approved with Draeger DHR 7000, C420 Blower, Single-Speed Toggle, Battery - LiSO2 (BA5800/U), C420 Breathing Tube Assembly with 75 Degrees Swivel, Decon Belt Assembly 70" x 2", C420 Airflow Indicator (Afl), Micronel Safety M95 Cartridge (2), Molded Case, Black, CBRN Breathing Tube Assembly

02 87 19 00-0170 Bio-Hazard And Infectious Disease Control Expendables (02 87 19 00-0151)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections. See CSI section 01 56 16 00-0001 for temporary sheeting, 01 56 16 00-0031 for temporary walls.

02 87 19 00-0171	GAL	Bleach For Bio-Hazard And Infectious Disease Control Clean-up	12.26
02 87 19 00-0172	EA	N95 Masks For Bio-Hazard And Infectious Disease Control Clean-up	4.06
02 87 19 00-0173	GAL	Disinfectant/Antimicrobial For Bio-Hazard And Infectious Disease Control Clean Up	120.09
02 87 19 00-0174	GAL	Goldshield® GS5 Antimicrobial Concentrate For Bio-Hazard And Infectious Disease Control Clean-up	336.13

Note: Mix 1 gallon in 5 gallons of water to produce 6 gallons of ready-to-use product. Use on any surface for bacterial inhibition up to 30 days

02 87 19 00-0175	QT	Hand Sanitizer For Bio-Hazard And Infectious Disease Control Clean-up	12.76
02 87 19 00-0176	EA	Sponges - Dry For Bio-Hazard And Infectious Disease Control Clean-up	6.01
02 87 19 00-0177	ROL	Tape - Duct, 2" x 50 YD For Bio-Hazard And Infectious Disease Control Clean-up	15.63
02 87 19 00-0178	EA	UV Mini Light, Handheld For Bio-Hazard And Infectious Disease Control Clean-up	73.44
02 87 19 00-0179	ROL	Visqueen 1 Mil, 12' x 400', For Bio-Hazard And Infectious Disease Control Clean-up	63.00
02 87 19 00-0180	LB	Wipes, Terry Cloth 14" x 17" For Bio-Hazard And Infectious Disease Control Clean-up	9.31
02 87 19 00-0181	EA	Wyp-Alls, Case, 160 Wipes For Bio-Hazard And Infectious Disease Control Clean-up	18.77
02 87 19 00-0182	ROL	6 Mil, 55 Gallon Trash Bags, 50/Roll For Bio-Hazard And Infectious Disease Control Clean Up	193.92

02 89 Hazmat Ancillary Tasks and Support (02 89)

02 89 00 00-0001 Barriers And Protection (02 89)
Note: Includes removal and disposal after use.

02 89 00 00-0002 Isolation Barriers (02 89 00 00-0001)
See CSI section 01 56 16 00-0031 for temporary stud walls.

02 89 00 00-0003 Cleaning Surfaces (02 89 00 00-0001)
Note: Other surfaces outside contamination area but not contaminated by, or part of removal.

02 89 00 00-0004	SF	Up To 100 SF, Clean Non-Asbestos Surface	1.50
02 89 00 00-0005	SF	>100 To 500 SF, Clean Non-Asbestos Surface	1.06
02 89 00 00-0006	SF	>500 To 1,000 SF, Clean Non-Asbestos Surface	0.70
02 89 00 00-0007	SF	>1,000 SF, Clean Non-Asbestos Surface	0.54

02 89 00 00-0008 Hazmat Containment Construction Plastic Sheeting (02 89 00 00-0001)

02 89 00 00-0009	SF	6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction	0.39
02 89 00 00-0010	SF	6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.51
02 89 00 00-0011	SF	6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.66
02 89 00 00-0012	SF	6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, Hazmat Containment Construction	0.71
02 89 00 00-0013	SF	6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction	0.89
02 89 00 00-0014	SF	6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	1.16

02 89 00 00-0015 Decontamination Chambers (02 89)
Note: Includes removal after use.

02 89 00 00-0016	EA	3 Stage Portable Personnel Decontamination Wash Facility	994.07
02 89 00 00-0017	EA	5 Stage Portable Personnel Decontamination Wash Facility	1,172.11
02 89 00 00-0018	EA	Portable Waste Decontamination Unit	610.66

Note: Includes connection to negative air system.
For Dismantling And Relocation To A Different Area, Add 395.30

02 90 Disaster Recovery (02)

Note: The tasks in this division are only to be used when specifically requested by the Owner and are not to be combined with tasks from other divisions of this or other Construction Task Catalogs® unless specifically requested by the Owner.

02 90 50 Cleaning and Disaster Clean-up (02 90)

02 90 50 00-0001 Non-Mold Contaminated Wet Material Removal (02 90 50)
Note: For materials not requiring mold abatement.

02 90 50 00-0002	SY	Wet Broadloom Carpet Removal For Disaster Clean-up	25.31
02 90 50 00-0003	SY	Wet Carpet Tile Removal For Disaster Clean-up	6.16
02 90 50 00-0004	SF	Wet Batt Insulation Removal For Disaster Clean-up	0.51
02 90 50 00-0005	SF	Wet Ceiling Tile Removal For Disaster Clean-up	0.62
02 90 50 00-0006	SF	Single Layer, Wet Gypsum Board Removal For Disaster Clean-up	0.60
02 90 50 00-0007	SF	Double Layer, Wet Gypsum Board Removal For Disaster Clean-up	0.94

02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning and Disaster Clean-up**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0008		Cleaning <small>(02 90 50)</small> Note: Use "Light Clean" when soot or dust is barely evident. Use "Medium Clean" when paint color can be seen through the soot or dust. Use "Heavy Clean" when paint color cannot be seen. Includes all man power, equipment and expendables required		
02 90 50 00-0009		Clean Furnishings <small>(02 90 50 00-0008)</small>		
02 90 50 00-0010	EA	Office Equipment, Exterior Wipe For Disaster Clean-up.....	27.80	
		<i>For Medium Clean, Add</i>	11.68	
		<i>For Heavy Clean, Add</i>	36.14	
02 90 50 00-0011	SF	Bookcase (Per SF Of Face Area), Light Clean For Disaster Clean-up	1.55	
		<i>For Medium Clean, Add</i>	0.65	
		<i>For Heavy Clean, Add</i>	2.02	
02 90 50 00-0012	LF	Shelving, Light Clean For Disaster Clean-up	2.78	
		<i>For Medium Clean, Add</i>	1.17	
		<i>For Heavy Clean, Add</i>	3.61	
02 90 50 00-0013	EA	Plastic Or Metal Chair, Light Clean For Disaster Clean-up	8.03	
		<i>For Medium Clean, Add</i>	3.37	
		<i>For Heavy Clean, Add</i>	10.44	
02 90 50 00-0014	EA	Upholstered Chair, Light Clean For Disaster Clean-up.....	25.95	
		<i>For Medium Clean, Add</i>	10.90	
		<i>For Heavy Clean, Add</i>	33.74	
02 90 50 00-0015	EA	Upholstered Sofa, Light Clean For Disaster Clean-up	159.98	
		<i>For Medium Clean, Add</i>	67.19	
		<i>For Heavy Clean, Add</i>	207.97	
02 90 50 00-0016	EA	Desk, Light Clean For Disaster Clean-up.....	32.74	
		<i>For Medium Clean, Add</i>	13.75	
		<i>For Heavy Clean, Add</i>	42.56	
02 90 50 00-0017	EA	Table, Light Clean For Disaster Clean-up.....	30.89	
		<i>For Medium Clean, Add</i>	12.97	
		<i>For Heavy Clean, Add</i>	40.16	
02 90 50 00-0018	EA	Two Drawer File Cabinet, Light Clean For Disaster Clean-up	6.77	
		<i>For Medium Clean, Add</i>	2.84	
		<i>For Heavy Clean, Add</i>	8.80	
02 90 50 00-0019	EA	Four Drawer File Cabinet, Light Clean For Disaster Clean-up.....	8.66	
		<i>For Medium Clean, Add</i>	3.64	
		<i>For Heavy Clean, Add</i>	11.26	
02 90 50 00-0020	LF	Base Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up	7.11	
		<i>For Medium Clean, Add</i>	2.99	
		<i>For Heavy Clean, Add</i>	9.24	
02 90 50 00-0021	LF	Base Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up	13.90	
		<i>For Medium Clean, Add</i>	5.84	
		<i>For Heavy Clean, Add</i>	18.07	
02 90 50 00-0022	LF	Wall Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up	7.11	
		<i>For Medium Clean, Add</i>	2.99	
		<i>For Heavy Clean, Add</i>	9.24	
02 90 50 00-0023	LF	Wall Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up.....	12.35	
		<i>For Medium Clean, Add</i>	5.19	
		<i>For Heavy Clean, Add</i>	16.06	
02 90 50 00-0024	EA	Picture Frame, Glass And Back, Light Clean For Disaster Clean-up.....	2.96	
		<i>For Medium Clean, Add</i>	1.24	
		<i>For Heavy Clean, Add</i>	3.85	
02 90 50 00-0025		Clean Hard Surfaces <small>(02 90 50 00-0008)</small>		
02 90 50 00-0026	LF	Wood, Vinyl Or Rubber Baseboard, Light Clean For Disaster Clean-up.....	0.40	
		<i>For Medium Clean, Add</i>	0.17	
		<i>For Heavy Clean, Add</i>	0.52	
02 90 50 00-0027	EA	Door And Hardware (Per Side), Light Clean For Disaster Clean-up	5.25	
		<i>For Medium Clean, Add</i>	2.21	
		<i>For Heavy Clean, Add</i>	6.83	
02 90 50 00-0028	EA	Detailed Door And Hardware (Per Side), Light Clean For Disaster Clean-up	5.95	
		<i>For Medium Clean, Add</i>	2.50	
		<i>For Heavy Clean, Add</i>	7.74	
02 90 50 00-0029	SF	Overhead Door, Light Clean For Disaster Clean-up	0.42	
		<i>For Medium Clean, Add</i>	0.18	
		<i>For Heavy Clean, Add</i>	0.55	
02 90 50 00-0030	SF	Mirror, Light Clean For Disaster Clean-up	0.31	
		<i>For Medium Clean, Add</i>	0.13	
		<i>For Heavy Clean, Add</i>	0.40	
02 90 50 00-0031	SF	Window, Light Clean For Disaster Clean-up	0.91	
		<i>For Medium Clean, Add</i>	0.38	
		<i>For Heavy Clean, Add</i>	1.18	
02 90 50 00-0032	LF	Handrail, Light Clean For Disaster Clean-up	0.81	
		<i>For Medium Clean, Add</i>	0.34	
		<i>For Heavy Clean, Add</i>	1.05	
02 90 50 00-0033	LF	Bumper Rail, Light Clean For Disaster Clean-up	0.44	
		<i>For Medium Clean, Add</i>	0.18	
		<i>For Heavy Clean, Add</i>	0.57	
02 90 50 00-0034	SF	Hard Floor, Light Clean For Disaster Clean-up.....	0.36	
		<i>For Medium Clean, Add</i>	0.15	
		<i>For Heavy Clean, Add</i>	0.47	
02 90 50 00-0035	SF	Carpet, Light Clean For Disaster Clean-up.....	0.37	
		<i>For Medium Clean, Add</i>	0.16	
		<i>For Heavy Clean, Add</i>	0.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0036 SF Hard Ceiling, Light Clean For Disaster Clean-up.....	0.28	
<i>For Medium Clean, Add</i>	0.12	
<i>For Heavy Clean, Add</i>	0.36	
02 90 50 00-0037 SF Suspended Ceiling, Tile And Grid, Light Clean For Disaster Clean-up.....	0.31	
<i>For Medium Clean, Add</i>	0.13	
<i>For Heavy Clean, Add</i>	0.40	
02 90 50 00-0038 SF Ceramic Tile Wall, Light Clean For Disaster Clean-up.....	0.26	
<i>For Medium Clean, Add</i>	0.11	
<i>For Heavy Clean, Add</i>	0.34	
02 90 50 00-0039 SF Wall, Light Clean For Disaster Clean-up.....	0.19	
<i>For Medium Clean, Add</i>	0.08	
<i>For Heavy Clean, Add</i>	0.25	
02 90 50 00-0040 SF Masonry Wall, Light Clean For Disaster Clean-up.....	0.26	
<i>For Medium Clean, Add</i>	0.11	
<i>For Heavy Clean, Add</i>	0.34	
02 90 50 00-0041 EA Up To 24 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up.....	65.15	
Note: Includes removal from site, cleaning, and return.		
<i>For Medium Clean, Add</i>	27.36	
<i>For Heavy Clean, Add</i>	84.70	
02 90 50 00-0042 EA >24 To 96 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up.....	81.43	
Note: Includes removal from site, cleaning, and return.		
<i>For Medium Clean, Add</i>	34.20	
<i>For Heavy Clean, Add</i>	105.86	
02 90 50 00-0043 EA >96 To 140 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up.....	97.71	
Note: Includes removal from site, cleaning, and return.		
<i>For Medium Clean, Add</i>	41.04	
<i>For Heavy Clean, Add</i>	127.02	
02 90 50 00-0044 EA >140 To 216 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up.....	114.00	
<i>For Medium Clean, Add</i>	47.88	
<i>For Heavy Clean, Add</i>	148.20	
02 90 50 00-0045 Clean Window Treatments (02 90 50 00-0008)		
02 90 50 00-0046 SF Window Blind, Light Clean For Disaster Clean-up.....	0.71	
<i>For Medium Clean, Add</i>	0.30	
<i>For Heavy Clean, Add</i>	0.92	
02 90 50 00-0047 EA Up To 6' Long Drapery (Per Pleat), Light Clean For Disaster Clean-up.....	1.45	
<i>For Medium Clean, Add</i>	0.61	
<i>For Heavy Clean, Add</i>	1.89	
02 90 50 00-0048 EA Up To 6' Long Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up.....	1.67	
<i>For Medium Clean, Add</i>	0.70	
<i>For Heavy Clean, Add</i>	2.17	
02 90 50 00-0049 EA >6' To 8' Drapery (Per Pleat), Light Clean For Disaster Clean-up.....	1.52	
<i>For Medium Clean, Add</i>	0.64	
<i>For Heavy Clean, Add</i>	1.98	
02 90 50 00-0050 EA >6' To 8' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up.....	1.75	
<i>For Medium Clean, Add</i>	0.74	
<i>For Heavy Clean, Add</i>	2.28	
02 90 50 00-0051 EA >8' To 10' Drapery (Per Pleat), Light Clean For Disaster Clean-up.....	1.86	
<i>For Medium Clean, Add</i>	0.78	
<i>For Heavy Clean, Add</i>	2.42	
02 90 50 00-0052 EA >8' To 10' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up.....	2.14	
<i>For Medium Clean, Add</i>	0.90	
<i>For Heavy Clean, Add</i>	2.78	
02 90 50 00-0053 Clean Appliances (02 90 50 00-0008)		
02 90 50 00-0054 EA Microwave Oven, Outside, Light Clean For Disaster Clean-up.....	12.80	
<i>For Medium Clean, Add</i>	5.38	
<i>For Heavy Clean, Add</i>	16.64	
02 90 50 00-0055 EA Refrigerator, Outside, Light Clean For Disaster Clean-up.....	30.15	
<i>For Medium Clean, Add</i>	12.66	
<i>For Heavy Clean, Add</i>	39.20	
02 90 50 00-0056 EA Range, Outside, Light Clean For Disaster Clean-up.....	26.06	
<i>For Medium Clean, Add</i>	10.95	
<i>For Heavy Clean, Add</i>	33.88	
02 90 50 00-0057 Clean Plumbing (02 90 50 00-0008)		
02 90 50 00-0058 EA Water Heater, Light Clean For Disaster Clean-up.....	18.54	
<i>For Medium Clean, Add</i>	7.79	
<i>For Heavy Clean, Add</i>	24.10	
02 90 50 00-0059 EA Plumbing Fixture, Light Clean For Disaster Clean-up.....	18.72	
<i>For Medium Clean, Add</i>	7.86	
<i>For Heavy Clean, Add</i>	24.34	
02 90 50 00-0060 EA Restroom Accessory, Light Clean For Disaster Clean-up.....	8.59	
<i>For Medium Clean, Add</i>	3.61	
<i>For Heavy Clean, Add</i>	11.17	
02 90 50 00-0061 Clean HVAC (02 90 50 00-0008)		
02 90 50 00-0062 LF Baseboard Heater, Light Clean For Disaster Clean-up.....	5.53	
<i>For Medium Clean, Add</i>	2.32	
<i>For Heavy Clean, Add</i>	7.19	

02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning and Disaster Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0063 LF Ductwork, Exterior Wipe, Light Clean For Disaster Clean-up	15.45	
For Medium Clean, Add	6.49	
For Heavy Clean, Add	20.09	
02 90 50 00-0064 EA Ductwork, Interior (Per Grille/Register), Light Clean For Disaster Clean-up	59.30	
For Medium Clean, Add	24.91	
For Heavy Clean, Add	77.09	
02 90 50 00-0065 EA Grille/Register, Light Clean For Disaster Clean-up	5.56	
For Medium Clean, Add	2.34	
For Heavy Clean, Add	7.23	
02 90 50 00-0066 EA Air Handling Unit, Exterior Wipe, Light Clean For Disaster Clean-up	38.51	
For Medium Clean, Add	16.17	
For Heavy Clean, Add	50.06	
02 90 50 00-0067 EA Furnace, Exterior Wipe, Light Clean For Disaster Clean-up	34.29	
For Medium Clean, Add	14.40	
For Heavy Clean, Add	44.58	
02 90 50 00-0068 Clean Electrical (02 90 50 00-0008)		
02 90 50 00-0069 EA Electric Fan, Light Clean For Disaster Clean-up	22.86	
For Medium Clean, Add	9.60	
For Heavy Clean, Add	29.72	
02 90 50 00-0070 EA Ceiling Fan, Light Clean For Disaster Clean-up	24.71	
For Medium Clean, Add	10.38	
For Heavy Clean, Add	32.12	
02 90 50 00-0071 EA Ceiling Fan And Light, Light Clean For Disaster Clean-up	32.12	
For Medium Clean, Add	13.49	
For Heavy Clean, Add	41.76	
02 90 50 00-0072 EA Ceiling Exhaust Fan, Light Clean For Disaster Clean-up	22.54	
For Medium Clean, Add	9.47	
For Heavy Clean, Add	29.30	
02 90 50 00-0073 EA 2' x 4' Light Fixture, Light Clean For Disaster Clean-up	14.83	
For Medium Clean, Add	6.23	
For Heavy Clean, Add	19.28	
02 90 50 00-0074 EA Light Fixture, Light Clean For Disaster Clean-up	6.79	
For Medium Clean, Add	2.85	
For Heavy Clean, Add	8.83	
02 90 50 00-0075 EA Smoke Detector, Light Clean For Disaster Clean-up	5.25	
For Medium Clean, Add	2.21	
For Heavy Clean, Add	6.83	
02 90 50 00-0076 EA Thermostat, Light Clean For Disaster Clean-up	1.85	
For Medium Clean, Add	0.78	
For Heavy Clean, Add	2.41	
02 90 50 00-0077 Thermal Fog (02 90 50 00-0008)		
02 90 50 00-0078 CF Clean And Deodorize Building With Thermal Fog For Disaster Clean-up	0.02	
02 90 50 00-0079 Contents Manipulation (02 90 50)		
02 90 50 00-0080 SF Cover Contents With 6 Mil Plastic Sheeting For Disaster Clean-up	0.24	
02 90 50 00-0081 SF Floor Protection, Adhesive Film For Disaster Clean-up	0.29	
02 90 50 00-0082 SF Move Contents Out And Later Reset For Disaster Clean-up	0.49	
02 90 50 00-0083 MO 20' Long Job Site Storage Trailer For Disaster Clean-up	210.54	
02 90 50 00-0084 MO 40' Long Job Site Storage Trailer For Disaster Clean-up	279.21	
02 90 50 00-0085 EA Delivery Or Pickup Job Site Storage Trailer For Disaster Clean-up	143.67	
02 90 50 00-0086 Water Disaster Clean-up (02 90 50)		
02 90 50 00-0087 LF Detach Baseboard For Disaster Clean-up	0.67	
02 90 50 00-0088 LF Detach And Later Reset Baseboard For Disaster Clean-up	1.19	
02 90 50 00-0089 EA Block And Pad Furniture (Per Piece Of Furniture) For Disaster Clean-up	4.39	
02 90 50 00-0090 SF Water Extraction From Floor For Disaster Clean-up	0.45	
02 90 50 00-0091 SF Gray Water Extraction From Floor For Disaster Clean-up	0.74	
02 90 50 00-0092 SF Black Water Extraction From Floor For Disaster Clean-up	1.17	
02 90 50 00-0093 SF Tear Out Wet Non Salvageable Carpet For Disaster Clean-up	0.36	
02 90 50 00-0094 SF Tear Out Wet Non Salvageable Carpet, Black Water For Disaster Clean-up	0.43	
02 90 50 00-0095 SF Tear Out Wet Non Salvageable Glue Down Carpet For Disaster Clean-up	0.65	
02 90 50 00-0096 SF Tear Out Wet Non Salvageable Glue Down Carpet, Black Water For Disaster Clean-up	0.95	
02 90 50 00-0097 SF Tear Out Vinyl Flooring For Disaster Clean-up	0.90	
02 90 50 00-0098 SF Tear Out Vinyl Flooring, Black Water For Disaster Clean-up	1.31	
02 90 50 00-0099 SF Tear Out Wood Flooring, Black Water For Disaster Clean-up	3.40	
02 90 50 00-0100 SF Tear Out Laminated Wood Flooring For Disaster Clean-up	1.68	
02 90 50 00-0101 SF Tear Out Laminated Wood Flooring, Black Water For Disaster Clean-up	2.46	
02 90 50 00-0102 SF Tear Out Wet Ceiling Tile For Disaster Clean-up	0.28	
02 90 50 00-0103 SF Tear Out Batt Insulation For Disaster Clean-up	0.28	
02 90 50 00-0104 SF Tear Out Wet Gypsum Board For Disaster Clean-up	0.48	
02 90 50 00-0105 SF Apply Antimicrobial Agent For Disaster Clean-up	0.27	
02 90 50 00-0106 SF High Efficiency Particulate Air (HEPA) Vacuuming For Disaster Clean-up	0.35	
02 90 50 00-0107 Board Up And Tarp Up (02 90 50)		
02 90 50 00-0108 SF Polyethylene Tarp On Roof For Disaster Clean-up	0.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0109 SF 1/2" Temporary Plywood On Roof For Disaster Clean-up	1.83	
02 90 50 00-0110 SF 5/8" Temporary Plywood On Roof For Disaster Clean-up	1.96	
02 90 50 00-0111 SF 3/4" Temporary Plywood On Roof For Disaster Clean-up	2.15	
02 90 50 00-0112 SF 1/2" Temporary Plywood On Wall Or Windows For Disaster Clean-up	2.20	
02 90 50 00-0113 SF 5/8" Temporary Plywood On Wall Or Windows For Disaster Clean-up	2.33	
02 90 50 00-0114 SF 3/4" Temporary Plywood On Wall Or Windows For Disaster Clean-up	2.52	
02 90 50 00-0115 Minimum Charges <small>(02 90 50)</small>		
02 90 50 00-0116 EA Disaster Cleaning Minimum Charge	1,352.26	
02 90 50 00-0117 EA Disaster Water Extraction Minimum Charge	290.87	
02 90 50 00-0118 EA Disaster Carpet Cleaning Minimum Charge	271.08	
02 90 50 00-0119 Document Restoration <small>(02 90 50)</small>		
02 90 50 00-0120 EA Book Rebinding, Each For Document Restoration	139.99	
02 90 50 00-0121 EA Book Recasing, Each For Document Restoration	69.98	
02 90 50 00-0122 EA Boxes-MCS, 1.2 CF For Document Restoration	8.79	
02 90 50 00-0123 EA Boxes-MCS, 2.0 CF For Document Restoration	9.70	
02 90 50 00-0124 EA Boxes Bankers For Document Restoration	22.36	
02 90 50 00-0125 EA Boxes Standard Packout For Document Restoration	5.63	
02 90 50 00-0126 EA Boxes X Ray For Document Restoration	14.01	
02 90 50 00-0127 EA CD Scanning and Diagnostics, Each For Document Restoration	14.01	
02 90 50 00-0128 EA Cleaning Antique Books, Each For Document Restoration	419.95	
02 90 50 00-0129 EA Cleaning Catheter Roll, Per Roll For Document Restoration	55.98	
02 90 50 00-0130 EA Cleaning CD And DVD, Per Disc For Document Restoration	5.62	
02 90 50 00-0131 EA Cleaning Level 1 - Blue Prints, Each For Document Restoration	3.93	
02 90 50 00-0132 CF Cleaning Level 1 - Document Per CF For Document Restoration	121.78	
02 90 50 00-0133 EA Cleaning Level 1 - Linen, Each For Document Restoration	3.93	
02 90 50 00-0134 EA Cleaning Level 1 - Mylar, Each For Document Restoration	3.93	
02 90 50 00-0135 EA Cleaning Level 2 - Blue Print, Each For Document Restoration	4.88	
02 90 50 00-0136 CF Cleaning Level 2 - Document Per CF For Document Restoration	182.51	
02 90 50 00-0137 EA Cleaning Level 2 - Linen, Each For Document Restoration	4.88	
02 90 50 00-0138 EA Cleaning Level 2 - Mylar, Each For Document Restoration	4.88	
02 90 50 00-0139 EA Cleaning Level 3 - Blue Prints, Each For Document Restoration	6.93	
02 90 50 00-0140 CF Cleaning Level 3 - Document Per CF For Document Restoration	243.52	
02 90 50 00-0141 EA Cleaning Level 3 - Linen, Each For Document Restoration	6.93	
02 90 50 00-0142 EA Cleaning Level 3 - Mylar, Each For Document Restoration	6.93	
02 90 50 00-0143 EA Cleaning Level 4 - All Fire-Blue Print, Each For Document Restoration	9.71	
02 90 50 00-0144 EA Cleaning Level 4 - All Fire-Linen, Each For Document Restoration	9.71	
02 90 50 00-0145 EA Cleaning Level 4 - All Fire-Mylar, Each For Document Restoration	9.71	
02 90 50 00-0146 CF Cleaning Level 4 - Light Fire-Documnet Per CF For Document Restoration	304.35	
02 90 50 00-0147 EA Cleaning Level 5 - Severe Fire-Blue Print, Each For Document Restoration	10.76	
02 90 50 00-0148 CF Cleaning Level 5 - Severe Fire-Documnet Per CF For Document Restoration	456.66	
02 90 50 00-0149 EA Cleaning Level 5 - Severe Fire-Linen, Each For Document Restoration	10.76	
02 90 50 00-0150 EA Cleaning Level 5 - Severe Fire-Mylar, Each For Document Restoration	10.76	
02 90 50 00-0151 EA Cleaning Microfiche Sheets, Each For Document Restoration	3.82	
02 90 50 00-0152 EA Cleaning Microfiche Strips, Each For Document Restoration	0.89	
02 90 50 00-0153 EA Cleaning Microfilm Rolls (In House), Per Roll For Document Restoration	139.99	
02 90 50 00-0154 EA Cleaning Microfilm Rolls (Outside), Per Roll For Document Restoration	195.99	
02 90 50 00-0155 EA Cleaning Photographs Negatives, Per Negative For Document Restoration	3.82	
02 90 50 00-0156 EA Cleaning Photographs, Each For Document Restoration	0.89	
02 90 50 00-0157 EA Cleaning Record Albums, Each For Document Restoration	5.62	
02 90 50 00-0158 EA Cleaning VHS And Beta Tapes-In House, Each For Document Restoration	14.01	
02 90 50 00-0159 EA Cleaning VHS And Beta Tapes-Outside, Each For Document Restoration	55.98	
02 90 50 00-0160 EA Cleaning X Ray 1-1000, Per Film For Document Restoration	5.21	
02 90 50 00-0161 EA Cleaning X Ray 1K-5K, Per Film For Document Restoration	4.45	
02 90 50 00-0162 EA Cleaning X Ray 5K-Up, Per Film For Document Restoration	3.49	
02 90 50 00-0163 EA Copying Clean Water, Per Page For Document Restoration	0.51	
02 90 50 00-0164 EA Copying Greywater Fire, Per Page For Document Restoration	1.51	
02 90 50 00-0165 CF Deodorization, Vapor Tech For Document Restoration	9.61	
02 90 50 00-0166 CF Disinfectant-Fogging For Document Restoration	19.63	
02 90 50 00-0167 EA Document Disposal In House No Shredding For Document Restoration	74.64	
02 90 50 00-0168 EA Document Disposal In House With Shredding For Document Restoration	20.37	
02 90 50 00-0169 CF Up To 150 CF, Drying-MCS Center For Document Restoration	251.97	
02 90 50 00-0170 CF >150 To 500 CF, Drying-MCS Center For Document Restoration	195.99	
02 90 50 00-0171 CF >500 CF, Drying-MCS Center For Document Restoration	167.98	
02 90 50 00-0172 CF >50 To 150 CF, Drying-MCS Center For Document Restoration	223.98	
02 90 50 00-0173 CF Up To 500 CF, Drying-Onsite For Document Restoration	419.95	
02 90 50 00-0174 CF >500 CF, Drying-Onsite For Document Restoration	257.62	
02 90 50 00-0175 EA Drying Antique Books, Each For Document Restoration	55.98	
02 90 50 00-0176 EA Drying Blue Prints, Each For Document Restoration	7.00	
02 90 50 00-0177 EA DVD Scanning And Diagnostics, Each For Document Restoration	14.01	
02 90 50 00-0178 EA Freeze Drying (In House) For Document Restoration	126.63	
02 90 50 00-0179 EA Freeze Drying (Outside) For Document Restoration	108.54	
02 90 50 00-0180 EA Up To 48 CF, Irradiation - Gamma (Minimum Charge) For Document Restoration	2,984.85	
02 90 50 00-0181 CF >48 CF, Irradiation - Gamma (Per CF Charge) For Document Restoration	27.14	
02 90 50 00-0182 EA Minimal Drying Jobs For Document Restoration	1,257.26	
02 90 50 00-0183 EA Monthly Storage For Document Restoration	234.58	
02 90 50 00-0184 EA Mylar Prints For Document Restoration	14.01	
02 90 50 00-0185 CF Ozoning For Document Restoration	8.63	

02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning and Disaster Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0186 CF Stabilization Freezer Storage, Per Cubic Foot Per Month For Document Restoration	10.93	
02 90 50 00-0187 MO Stabilization Freezer Storage, Per Page-Per Month For Document Restoration	0.14	
02 90 50 00-0188 EA Wood Pallets, Each For Document Restoration.....	30.37	
02 90 55 Emergency Clean-up (02 90)		
02 90 55 00-0001 Emergency Clean-up (02 90 55) Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 55 00-0002 Emergency Clean-up Labor (02 90 55 00-0001) Note: Used in the performance of time and material projects. Not to be used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 55 00-0003 HR Skilled Tradesman For Emergency Clean Up.....	60.72	
02 90 55 00-0004 HR Restoration / Document Laborer For Emergency Clean Up.....	42.50	
02 90 55 00-0005 HR Restoration / Document Supervisor For Emergency Clean Up.....	58.44	
02 90 55 00-0006 HR Restoration / Document Project Manager For Emergency Clean Up.....	95.63	
02 90 55 00-0007 HR Assistant Project Manager For Emergency Clean Up.....	79.70	
02 90 55 00-0008 HR Senior Project Manager For Emergency Clean Up.....	111.57	
02 90 55 00-0009 HR Project Director / Document Consultant / Account Manager For Emergency Clean Up	159.39	
02 90 55 00-0010 HR Equipment Technician For Emergency Clean Up.....	116.89	
02 90 55 00-0011 HR Mold Remediation Laborer For Emergency Clean Up.....	58.19	
02 90 55 00-0012 HR Mold Remediation Supervisor For Emergency Clean Up.....	79.70	
02 90 55 00-0013 HR Administrative Personnel For Emergency Clean Up.....	37.19	
02 90 55 00-0014 HR Project Accountant For Emergency Clean Up	60.72	
02 90 55 00-0015 HR Biohazard Technician For Emergency Clean Up	84.38	
02 90 55 00-0016 HR Biohazard Supervisor For Emergency Clean Up	101.45	
02 90 55 00-0017 HR Health And Safety Officer For Emergency Clean Up.....	91.08	
02 90 55 00-0018 HR Resource And Logistics Coordinator For Emergency Clean Up	65.78	
02 90 55 00-0019 HR Loss Control Specialist For Emergency Clean Up	63.76	
02 90 55 00-0020 HR Moisture Control Specialist For Emergency Clean Up.....	52.62	
02 90 55 00-0021 HR Mobilization Support For Emergency Clean Up.....	32.38	
02 90 55 00-0022 Emergency Clean-up Equipment (02 90 55 00-0001) Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 55 00-0023 General Emergency Clean-up Equipment (02 90 55 00-0022)		
02 90 55 00-0024 DAY 265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up	133.93	
02 90 55 00-0025 WK 265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up	510.93	
02 90 55 00-0026 MO 265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up	1,398.86	
02 90 55 00-0027 DAY 13" Floor Buffer Rental For Emergency Clean-up.....	56.98	
02 90 55 00-0028 WK 13" Floor Buffer Rental For Emergency Clean-up.....	160.39	
02 90 55 00-0029 MO 13" Floor Buffer Rental For Emergency Clean-up.....	442.76	
02 90 55 00-0030 DAY 17" Floor Buffer Rental For Emergency Clean-up.....	110.69	
02 90 55 00-0031 WK 17" Floor Buffer Rental For Emergency Clean-up.....	282.38	
02 90 55 00-0032 MO 17" Floor Buffer Rental For Emergency Clean-up.....	666.40	
02 90 55 00-0033 DAY Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	609.93	
02 90 55 00-0034 WK Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	1,637.78	
02 90 55 00-0035 MO Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	4,563.18	
02 90 55 00-0036 DAY Ride-On Floor Scrubber Rental For Emergency Clean-up.....	1,377.99	
02 90 55 00-0037 WK Ride-On Floor Scrubber Rental For Emergency Clean-up.....	3,636.99	
02 90 55 00-0038 MO Ride-On Floor Scrubber Rental For Emergency Clean-up.....	9,804.06	
02 90 55 00-0039 DAY 4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	99.40	
02 90 55 00-0040 WK 4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	282.38	
02 90 55 00-0041 MO 4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	971.37	
02 90 55 00-0042 DAY 8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	92.62	
02 90 55 00-0043 WK 8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	248.49	
02 90 55 00-0044 MO 8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	643.82	
02 90 55 00-0045 DAY 17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	148.19	
02 90 55 00-0046 WK 17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	422.88	
02 90 55 00-0047 MO 17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	1,181.91	
02 90 55 00-0048 DAY Truck Mounted Extractor Rental For Emergency Clean-up	928.92	
02 90 55 00-0049 WK Truck Mounted Extractor Rental For Emergency Clean-up	2,786.75	
02 90 55 00-0050 MO Truck Mounted Extractor Rental For Emergency Clean-up	8,360.25	
02 90 55 00-0051 DAY 16" Chain Saw Rental For Emergency Clean-up	108.43	
02 90 55 00-0052 WK 16" Chain Saw Rental For Emergency Clean-up	243.97	
02 90 55 00-0053 MO 16" Chain Saw Rental For Emergency Clean-up	650.59	
02 90 55 00-0054 DAY 20" Chain Saw Rental For Emergency Clean-up	135.54	
02 90 55 00-0055 WK 20" Chain Saw Rental For Emergency Clean-up	304.96	
02 90 55 00-0056 MO 20" Chain Saw Rental For Emergency Clean-up	813.24	
02 90 55 00-0057 EA Cleaning Kit With Mop, Broom And Bucket For Emergency Clean-up.....	101.66	
02 90 55 00-0058 DAY 14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up.....	144.58	
02 90 55 00-0059 WK 14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up.....	395.32	
02 90 55 00-0060 MO 14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up.....	1,106.91	
02 90 55 00-0061 DAY 12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up.....	176.20	
02 90 55 00-0062 WK 12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up.....	598.64	
02 90 55 00-0063 MO 12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up.....	1,140.80	
02 90 55 00-0064 DAY Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	161.45	
02 90 55 00-0065 WK Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	444.00	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0066	MO			Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	1,210.90	
02 90 55 00-0067	DAY			Extension Cords - 220 Volt For Emergency Clean-up	56.48	
02 90 55 00-0068	DAY			Extension Cords - 220 Volt Converter Box For Emergency Clean-up	33.88	
02 90 55 00-0069	DAY			Demolition Cart, 1 Yard For Emergency Clean-up.....	90.36	
02 90 55 00-0070	WK			Demolition Cart, 1 Yard For Emergency Clean-up.....	248.49	
02 90 55 00-0071	MO			Demolition Cart, 1 Yard For Emergency Clean-up.....	677.70	
02 90 55 00-0072	DAY			Demolition Cart, 1-1/2 Yard For Emergency Clean-up	112.95	
02 90 55 00-0073	WK			Demolition Cart, 1-1/2 Yard For Emergency Clean-up	310.61	
02 90 55 00-0074	MO			Demolition Cart, 1-1/2 Yard For Emergency Clean-up	847.12	
02 90 55 00-0075	EA			Demolition Kit With Wheel Barrow, Shovel And Broom For Emergency Clean-up	169.42	
02 90 55 00-0076	DAY			Dry-Ice Blasting System For Emergency Clean-up.....	1,826.87	
02 90 55 00-0077	DAY			Fogger - Mist For Emergency Clean-up.....	47.49	
02 90 55 00-0078	WK			Fogger - Mist For Emergency Clean-up.....	130.59	
02 90 55 00-0079	MO			Fogger - Mist For Emergency Clean-up.....	356.15	
02 90 55 00-0080	DAY			Fogger - Electric Thermal For Emergency Clean-up	68.38	
02 90 55 00-0081	WK			Fogger - Electric Thermal For Emergency Clean-up	188.05	
02 90 55 00-0082	MO			Fogger - Electric Thermal For Emergency Clean-up	512.85	
02 90 55 00-0083	DAY			Fogger - Gas Power Thermal For Emergency Clean-up	183.87	
02 90 55 00-0084	WK			Fogger - Gas Power Thermal For Emergency Clean-up	505.64	
02 90 55 00-0085	MO			Fogger - Gas Power Thermal For Emergency Clean-up	1,379.01	
02 90 55 00-0086	EA			Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	226.12	
02 90 55 00-0087	WK			Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	621.84	
02 90 55 00-0088	MO			Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	1,695.94	
02 90 55 00-0089	DAY			Hand Trucks/Dollies For Emergency Clean-up.....	27.11	
02 90 55 00-0090	WK			Hand Trucks/Dollies For Emergency Clean-up.....	74.55	
02 90 55 00-0091	MO			Hand Trucks/Dollies For Emergency Clean-up.....	203.31	
02 90 55 00-0092	DAY			Heat Gun - Shrink Wrap For Emergency Clean-up.....	140.74	
02 90 55 00-0093	WK			Heat Gun - Shrinkwrap For Emergency Clean-up.....	387.05	
02 90 55 00-0094	MO			Heat Gun - Shrinkwrap For Emergency Clean-up	1,055.59	
02 90 55 00-0095	DAY			High Efficiency Particulate Air (HEPA) Negative Air Machine For Emergency Clean-up.....	198.99	
				Note: Includes all filters.		
02 90 55 00-0096	DAY			Ladder For Emergency Clean-up.....	38.40	
02 90 55 00-0097	DAY			Lights - Demo, Drop, Stand, String For Emergency Clean-up	34.19	
02 90 55 00-0098	DAY			Lights - Wobble For Emergency Clean-up.....	41.79	
02 90 55 00-0099	DAY			Moisture Meter For Emergency Clean-up	56.98	
02 90 55 00-0100	WK			Moisture Meter For Emergency Clean-up.....	156.70	
02 90 55 00-0101	MO			Moisture Meter For Emergency Clean-up.....	427.38	
02 90 55 00-0102	DAY			Nail Gun For Emergency Clean-up.....	101.66	
02 90 55 00-0103	WK			Nail Gun For Emergency Clean-up.....	279.55	
02 90 55 00-0104	MO			Nail Gun For Emergency Clean-up.....	762.41	
02 90 55 00-0105	DAY			Ozone Generator For Emergency Clean-up	237.43	
02 90 55 00-0106	DAY			PPE (Personal Protective Equipment) Mold Remediation Related For Emergency Clean-up	135.54	
02 90 55 00-0107	DAY			Portable Generator, Up To 7,500 Watt For Emergency Clean-up	189.94	
02 90 55 00-0108	DAY			Pressure Washer, Hot For Emergency Clean-up.....	284.92	
02 90 55 00-0109	DAY			Pressure Washer, Cold For Emergency Clean-up.....	189.94	
02 90 55 00-0110	DAY			Scaffolding - Per Section For Emergency Clean-up	146.84	
02 90 55 00-0111	DAY			Small Tools - Tool Box For Emergency Clean-up	56.48	
02 90 55 00-0112	DAY			Soda Blasting Equipment For Emergency Clean-up.....	1,812.80	
02 90 55 00-0113	DAY			Sprayer - Hudson For Emergency Clean-up.....	18.07	
02 90 55 00-0114	WK			Sprayer - Hudson For Emergency Clean-up.....	49.70	
02 90 55 00-0115	MO			Sprayer - Hudson For Emergency Clean-up.....	135.54	
02 90 55 00-0116	DAY			0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	152.94	
02 90 55 00-0117	WK			0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	359.18	
02 90 55 00-0118	MO			0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	1,229.39	
02 90 55 00-0119	DAY			0.60 GPM, Airless Paint Sprayer For Emergency Clean-up	240.72	
02 90 55 00-0120	WK			0.60 GPM, Airless Paint Sprayer For Emergency Clean-up	567.42	
02 90 55 00-0121	MO			0.60 GPM, Airless Paint Sprayer For Emergency Clean-up	1,581.89	
02 90 55 00-0122	DAY			0.80 GPM, Airless Paint Sprayer For Emergency Clean-up	257.91	
02 90 55 00-0123	WK			0.80 GPM, Airless Paint Sprayer For Emergency Clean-up	644.79	
02 90 55 00-0124	MO			0.80 GPM, Airless Paint Sprayer For Emergency Clean-up	1,736.63	
02 90 55 00-0125	DAY			Storage Space (Per SF Per Day) For Emergency Clean-up.....	4.38	
02 90 55 00-0126	DAY			Submersible Pump For Emergency Clean-up.....	47.49	
02 90 55 00-0127	DAY			Trash Pump - 2" Gas Powered For Emergency Clean-up	260.85	
02 90 55 00-0128	DAY			Vehicle, Pick-up, SUV, Car For Emergency Clean-up	129.49	
02 90 55 00-0129	DAY			Vehicle, Van For Emergency Clean-up.....	211.12	
02 90 55 00-0130	DAY			16' Or 24' Box Truck Vehicle For Emergency Clean-up.....	255.37	
				Note: Includes Mileage		
02 90 55 00-0131	DAY			Trailer - Refrigerated 40' Storage For Emergency Clean-up.....	280.55	
02 90 55 00-0132	DAY			Utility Trailer For Emergency Clean-up.....	233.64	
				Note: Includes Mileage		
02 90 55 00-0133	DAY			Truck Mount, Per Wand Extraction For Emergency Clean-up	1,053.71	
02 90 55 00-0134	DAY			High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up	47.49	
02 90 55 00-0135	WK			High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up	130.59	
02 90 55 00-0136	MO			High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up	356.15	
02 90 55 00-0137	DAY			12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	161.45	
02 90 55 00-0138	WK			12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	444.00	
02 90 55 00-0139	MO			12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	1,210.90	
02 90 55 00-0140	DAY			Vacuum - Upright For Emergency Clean-up.....	30.96	
02 90 55 00-0141	WK			Vacuum - Upright For Emergency Clean-up.....	85.15	
02 90 55 00-0142	MO			Vacuum - Upright For Emergency Clean-up.....	232.23	
02 90 55 00-0143	DAY			12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up.....	70.03	

02 Existing Conditions**02 90 Disaster Recovery****02 90 55 Emergency Clean-up**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 90 55 00-0144	WK	12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up	173.94	
02 90 55 00-0145	MO	12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up	417.92	
02 90 55 00-0146	DAY	55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up	70.03	
02 90 55 00-0147	WK	55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up	173.94	
02 90 55 00-0148	MO	55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up	440.50	
02 90 55 00-0149	DAY	17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up	160.39	
02 90 55 00-0150	WK	17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up	429.21	
02 90 55 00-0151	MO	17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up	1,197.27	
02 90 55 00-0152	DAY	Zip Wall Poles (Per 2 Poles) For Emergency Clean-up	47.49	
02 90 55 00-0153	WK	Zip Wall Poles (Per 2 Poles) For Emergency Clean-up	130.59	
02 90 55 00-0154	MO	Zip Wall Poles (Per 2 Poles) For Emergency Clean-up	356.15	
02 90 55 00-0155	DAY	10' x 10' Canopy For Emergency Clean-up	142.32	
02 90 55 00-0156	WK	10' x 10' Canopy For Emergency Clean-up	284.63	
02 90 55 00-0157	MO	10' x 10' Canopy For Emergency Clean-up	569.27	
02 90 55 00-0158	DAY	10' x 20' Canopy For Emergency Clean-up	284.63	
02 90 55 00-0159	WK	10' x 20' Canopy For Emergency Clean-up	569.27	
02 90 55 00-0160	MO	10' x 20' Canopy For Emergency Clean-up	1,138.54	
02 90 55 00-0161	DAY	16' x 16' Canopy For Emergency Clean-up	356.92	
02 90 55 00-0162	WK	16' x 16' Canopy For Emergency Clean-up	713.84	
02 90 55 00-0163	MO	16' x 16' Canopy For Emergency Clean-up	1,427.69	
02 90 55 00-0164	DAY	20' x 20' Canopy For Emergency Clean-up	474.39	
02 90 55 00-0165	WK	20' x 20' Canopy For Emergency Clean-up	948.78	
02 90 55 00-0166	MO	20' x 20' Canopy For Emergency Clean-up	1,897.56	
02 90 55 00-0167	DAY	20' x 30' Canopy For Emergency Clean-up	542.16	
02 90 55 00-0168	WK	20' x 30' Canopy For Emergency Clean-up	1,084.32	
02 90 55 00-0169	MO	20' x 30' Canopy For Emergency Clean-up	2,168.64	
02 90 55 00-0170	DAY	20' x 40' Canopy For Emergency Clean-up	632.52	
02 90 55 00-0171	WK	20' x 40' Canopy For Emergency Clean-up	1,265.04	
02 90 55 00-0172	MO	20' x 40' Canopy For Emergency Clean-up	2,530.08	
02 90 55 00-0173	DAY	First Aid Station For Emergency Clean-up	341.56	
02 90 55 00-0174	WK	First Aid Station For Emergency Clean-up	939.29	
02 90 55 00-0175	MO	First Aid Station For Emergency Clean-up	2,561.71	
02 90 55 00-0176	DAY	Portable Eyewash Station For Emergency Clean-up	103.73	
02 90 55 00-0177	WK	Portable Eyewash Station For Emergency Clean-up	285.27	
02 90 55 00-0178	MO	Portable Eyewash Station For Emergency Clean-up	778.00	
02 90 55 00-0179	DAY	2 Way Radio For Emergency Clean-up	37.99	

02 90 55 00-0180 Technical/Electronics Restoration Equipment (02 90 55 00-0022)

02 90 55 00-0181	DAY	Computer - Diagnostic For Emergency Clean-up	56.48	
02 90 55 00-0182	WK	Computer - Diagnostic For Emergency Clean-up	155.31	
02 90 55 00-0183	MO	Computer - Diagnostic For Emergency Clean-up	423.56	
02 90 55 00-0184	DAY	Convection Oven - Large For Emergency Clean-up	819.14	
02 90 55 00-0185	WK	Convection Oven - Large For Emergency Clean-up	2,252.62	
02 90 55 00-0186	MO	Convection Oven - Large For Emergency Clean-up	6,143.52	
02 90 55 00-0187	DAY	Convection Oven - Small For Emergency Clean-up	203.31	
02 90 55 00-0188	WK	Convection Oven - Small For Emergency Clean-up	559.10	
02 90 55 00-0189	MO	Convection Oven - Small For Emergency Clean-up	1,524.82	
02 90 55 00-0190	DAY	Convection Oven - Vacuum For Emergency Clean-up	1,169.12	
02 90 55 00-0191	WK	Convection Oven - Vacuum For Emergency Clean-up	3,215.08	
02 90 55 00-0192	MO	Convection Oven - Vacuum For Emergency Clean-up	8,768.41	
02 90 55 00-0193	DAY	Decontamination Booth For Emergency Clean-up	966.45	
02 90 55 00-0194	WK	Decontamination Booth For Emergency Clean-up	2,657.73	
02 90 55 00-0195	MO	Decontamination Booth For Emergency Clean-up	7,248.37	
02 90 55 00-0196	DAY	DI Water System For Emergency Clean-up	75.06	
02 90 55 00-0197	WK	DI Water System For Emergency Clean-up	206.43	
02 90 55 00-0198	MO	DI Water System For Emergency Clean-up	562.98	
02 90 55 00-0199	DAY	ESD Bench Workstation For Emergency Clean-up	45.98	
02 90 55 00-0200	WK	ESD Bench Workstation For Emergency Clean-up	126.44	
02 90 55 00-0201	MO	ESD Bench Workstation For Emergency Clean-up	344.83	
02 90 55 00-0202	DAY	Heater/Enclosure Control System For Emergency Clean-up	33.88	
02 90 55 00-0203	WK	Heater/Enclosure Control System For Emergency Clean-up	93.18	
02 90 55 00-0204	MO	Heater/Enclosure Control System For Emergency Clean-up	254.14	
02 90 55 00-0205	DAY	Hi-Tech Mobile Cart/Workstation For Emergency Clean-up	118.23	
02 90 55 00-0206	WK	Hi-Tech Mobile Cart/Workstation For Emergency Clean-up	325.12	
02 90 55 00-0207	MO	Hi-Tech Mobile Cart/Workstation For Emergency Clean-up	886.69	
02 90 55 00-0208	DAY	Micro-Blaster/Dust Collector For Emergency Clean-up	508.28	
02 90 55 00-0209	WK	Micro-Blaster/Dust Collector For Emergency Clean-up	1,397.76	
02 90 55 00-0210	MO	Micro-Blaster/Dust Collector For Emergency Clean-up	3,812.06	
02 90 55 00-0211	DAY	Mobile Laboratory For Emergency Clean-up	1,411.88	
02 90 55 00-0212	WK	Mobile Laboratory For Emergency Clean-up	3,882.66	
02 90 55 00-0213	MO	Mobile Laboratory For Emergency Clean-up	10,589.06	
02 90 55 00-0214	DAY	Nitrogen Enclosure Cabinet For Emergency Clean-up	27.11	
02 90 55 00-0215	WK	Nitrogen Enclosure Cabinet For Emergency Clean-up	74.55	
02 90 55 00-0216	MO	Nitrogen Enclosure Cabinet For Emergency Clean-up	203.31	
02 90 55 00-0217	DAY	Odell Cleaning Station For Emergency Clean-up	790.65	
02 90 55 00-0218	WK	Odell Cleaning Station For Emergency Clean-up	2,174.29	
02 90 55 00-0219	MO	Odell Cleaning Station For Emergency Clean-up	5,929.88	
02 90 55 00-0220	DAY	Parts Washer For Emergency Clean-up	56.48	
02 90 55 00-0221	WK	Parts Washer For Emergency Clean-up	155.31	
02 90 55 00-0222	MO	Parts Washer For Emergency Clean-up	423.56	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0223	DAY			Ultrasonic Cleaning System For Emergency Clean-up.....	351.86	
02 90 55 00-0224	WK			Ultrasonic Cleaning System For Emergency Clean-up.....	967.62	
02 90 55 00-0225	MO			Ultrasonic Cleaning System For Emergency Clean-up.....	2,638.97	
02 90 55 00-0226	DAY			Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	150.09	
02 90 55 00-0227	WK			Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	412.75	
02 90 55 00-0228	MO			Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	1,125.69	
02 90 55 00-0229 Drying/Dehumidification Equipment (02 90 55 00-0022)						
02 90 55 00-0230	DAY			202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up	237.43	
				Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.		
02 90 55 00-0231	WK			202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up	652.94	
				Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.		
02 90 55 00-0232	MO			202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up	1,780.73	
				Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.		
02 90 55 00-0233	DAY			2,200 CFM Centrifugal Air Mover For Emergency Clean-up	55.45	
02 90 55 00-0234	WK			2,200 CFM Centrifugal Air Mover For Emergency Clean-up	152.49	
02 90 55 00-0235	MO			2,200 CFM Centrifugal Air Mover For Emergency Clean-up	415.89	
02 90 55 00-0236	DAY			3,000 CFM Axial Air Mover For Emergency Clean-up	92.42	
02 90 55 00-0237	WK			3,000 CFM Axial Air Mover For Emergency Clean-up	254.16	
02 90 55 00-0238	MO			3,000 CFM Axial Air Mover For Emergency Clean-up	693.16	
02 90 55 00-0239	DAY			Injectidry System For Emergency Clean-up	294.41	
02 90 55 00-0240	WK			Injectidry System For Emergency Clean-up	809.64	
02 90 55 00-0241	MO			Injectidry System For Emergency Clean-up	2,208.11	
02 90 55 00-0242	DAY			Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	189.94	
02 90 55 00-0243	WK			Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	522.35	
02 90 55 00-0244	MO			Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,424.59	
02 90 55 00-0245	DAY			>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	282.38	
02 90 55 00-0246	WK			>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	776.53	
02 90 55 00-0247	MO			>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	2,117.81	
02 90 55 00-0248	DAY			>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	262.30	
02 90 55 00-0249	WK			>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	721.34	
02 90 55 00-0250	MO			>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,967.29	
02 90 55 00-0251	DAY			Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	280.40	
02 90 55 00-0252	WK			Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	771.09	
02 90 55 00-0253	MO			Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	2,102.96	
02 90 55 00-0254	DAY			Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	280.40	
02 90 55 00-0255	WK			Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	771.09	
02 90 55 00-0256	MO			Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	2,102.96	
02 90 55 00-0257	DAY			D-500 Desiccant Dehumidifier For Emergency Clean-up	316.58	
02 90 55 00-0258	WK			D-500 Desiccant Dehumidifier For Emergency Clean-up	870.58	
02 90 55 00-0259	MO			D-500 Desiccant Dehumidifier For Emergency Clean-up	2,374.31	
02 90 55 00-0260	DAY			D-750 Desiccant Dehumidifier For Emergency Clean-up	664.81	
02 90 55 00-0261	WK			D-750 Desiccant Dehumidifier For Emergency Clean-up	1,828.22	
02 90 55 00-0262	MO			D-750 Desiccant Dehumidifier For Emergency Clean-up	4,986.06	
02 90 55 00-0263	DAY			D-1000 Desiccant Dehumidifier For Emergency Clean-up	1,139.67	
02 90 55 00-0264	WK			D-1000 Desiccant Dehumidifier For Emergency Clean-up	3,134.09	
02 90 55 00-0265	MO			D-1000 Desiccant Dehumidifier For Emergency Clean-up	8,547.52	
02 90 55 00-0266	DAY			D-1500 Desiccant Dehumidifier For Emergency Clean-up	1,754.73	
02 90 55 00-0267	WK			D-1500 Desiccant Dehumidifier For Emergency Clean-up	4,825.51	
02 90 55 00-0268	MO			D-1500 Desiccant Dehumidifier For Emergency Clean-up	13,160.48	
02 90 55 00-0269	DAY			D-2000 Desiccant Dehumidifier For Emergency Clean-up	1,754.73	
02 90 55 00-0270	WK			D-2000 Desiccant Dehumidifier For Emergency Clean-up	4,825.51	
02 90 55 00-0271	MO			D-2000 Desiccant Dehumidifier For Emergency Clean-up	13,160.48	
02 90 55 00-0272	DAY			D-2250 Desiccant Dehumidifier For Emergency Clean-up	1,832.52	
02 90 55 00-0273	WK			D-2250 Desiccant Dehumidifier For Emergency Clean-up	5,039.42	
02 90 55 00-0274	MO			D-2250 Desiccant Dehumidifier For Emergency Clean-up	13,743.88	
02 90 55 00-0275	DAY			D-3000 Desiccant Dehumidifier For Emergency Clean-up	2,279.34	
02 90 55 00-0276	WK			D-3000 Desiccant Dehumidifier For Emergency Clean-up	6,268.18	
02 90 55 00-0277	MO			D-3000 Desiccant Dehumidifier For Emergency Clean-up	17,095.05	
02 90 55 00-0278	DAY			D-4500 Desiccant Dehumidifier For Emergency Clean-up	2,564.26	
02 90 55 00-0279	WK			D-4500 Desiccant Dehumidifier For Emergency Clean-up	7,051.71	
02 90 55 00-0280	MO			D-4500 Desiccant Dehumidifier For Emergency Clean-up	19,231.93	
02 90 55 00-0281	DAY			D-5000 Desiccant Dehumidifier For Emergency Clean-up	2,754.20	
02 90 55 00-0282	WK			D-5000 Desiccant Dehumidifier For Emergency Clean-up	7,574.06	
02 90 55 00-0283	MO			D-5000 Desiccant Dehumidifier For Emergency Clean-up	20,656.52	
02 90 55 00-0284	DAY			D-9000 Desiccant Dehumidifier For Emergency Clean-up	3,618.00	
02 90 55 00-0285	WK			D-9000 Desiccant Dehumidifier For Emergency Clean-up	9,949.50	
02 90 55 00-0286	MO			D-9000 Desiccant Dehumidifier For Emergency Clean-up	27,135.00	
02 90 55 00-0287	DAY			D-10500 Desiccant Dehumidifier For Emergency Clean-up	3,798.90	
02 90 55 00-0288	WK			D-10500 Desiccant Dehumidifier For Emergency Clean-up	10,446.98	
02 90 55 00-0289	MO			D-10500 Desiccant Dehumidifier For Emergency Clean-up	28,491.75	
02 90 55 00-0290	DAY			3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	617.32	
02 90 55 00-0291	WK			3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,697.63	
02 90 55 00-0292	MO			3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	4,629.91	
02 90 55 00-0293	DAY			5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	854.75	
02 90 55 00-0294	WK			5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,350.57	
02 90 55 00-0295	MO			5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	6,410.64	
02 90 55 00-0296	DAY			10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	1,139.67	
02 90 55 00-0297	WK			10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	3,134.09	
02 90 55 00-0298	MO			10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	8,547.52	

02 Existing Conditions**02 90 Disaster Recovery****02 90 55 Emergency Clean-up**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0299	DAY		25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,519.56	
02 90 55 00-0300	WK		25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	4,178.79	
02 90 55 00-0301	MO		25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	11,396.70	
02 90 55 00-0302	DAY		50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,564.26	
02 90 55 00-0303	WK		50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	7,051.71	
02 90 55 00-0304	MO		50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	19,231.93	
02 90 55 00-0305	DAY		80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,849.18	
02 90 55 00-0306	WK		80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	7,835.23	
02 90 55 00-0307	MO		80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	21,368.81	
02 90 55 00-0308	DAY		25' Flex Duct For Emergency Clean-up.....	37.99	
02 90 55 00-0309	WK		25' Flex Duct For Emergency Clean-up.....	104.47	
02 90 55 00-0310	MO		25' Flex Duct For Emergency Clean-up.....	284.92	
02 90 55 00-0311	DAY		Hygrothermograph For Emergency Clean-up.....	56.48	
02 90 55 00-0312	WK		Hygrothermograph For Emergency Clean-up.....	155.31	
02 90 55 00-0313	MO		Hygrothermograph For Emergency Clean-up.....	423.56	
02 90 55 00-0314	DAY		Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....	8,938.06	
			Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0315	WK		Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....	24,579.66	
			Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0316	MO		Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....	67,035.45	
			Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0317 Power Equipment (02 90 55 00-0022)					
02 90 55 00-0318	WK		Up to 65 KVA Generator For Emergency Clean-up.....	1,175.85	
02 90 55 00-0319	WK		>65 to 125 KVA Generator For Emergency Clean-up.....	1,989.90	
02 90 55 00-0320	WK		>125 to 250 KVA Generator For Emergency Clean-up.....	1,940.84	
02 90 55 00-0321	WK		>250 to 375 KVA Generator For Emergency Clean-up.....	3,346.65	
02 90 55 00-0322	WK		>375 Up to 440 KVA Generator For Emergency Clean-up.....	4,522.50	
02 90 55 00-0323	WK		>440 to 625 KVA Generator For Emergency Clean-up.....	6,809.95	
02 90 55 00-0324	WK		>625 to 800 KVA Generator For Emergency Clean-up.....	6,964.65	
02 90 55 00-0325	WK		>800 to 1,000 KVA Generator For Emergency Clean-up.....	9,316.35	
02 90 55 00-0326	WK		>1,000 to 1,500 KVA Generator For Emergency Clean-up.....	14,019.75	
02 90 55 00-0327	EA		Generator Cable/Pigtails (Per Section) For Emergency Clean-up.....	30.39	
02 90 55 00-0328	EA		Sub-Distribution Panel (Spider Box) For Emergency Clean-up.....	145.62	
02 90 55 00-0329	EA		Electrical Distribution Panel For Emergency Clean-up.....	351.86	
02 90 55 00-0330	EA		Quad Box Strings (25' Sections) For Emergency Clean-up.....	54.72	
02 90 55 00-0331	EA		50' Power Cord For Spider Box For Emergency Clean-up.....	50.65	
02 90 55 00-0332	EA		Pig Tails (Per Each) For Emergency Clean-up.....	5.65	
02 90 55 00-0333 Freight Charges (02 90 55 00-0022)					
02 90 55 00-0334	MI		Freight Up To 1 Ton Pick Up Truck For Emergency Clean-up Equipment.....	2.82	
02 90 55 00-0335	MI		Freight >1 Ton Pick Up Truck For Emergency Clean-up Equipment.....	5.08	
02 90 55 00-0336	MI		Freight 16' Or 24' Box Truck For Emergency Clean-up Equipment.....	5.08	
02 90 55 00-0337	MI		Freight Tractor Trailer For Emergency Clean-up Equipment.....	7.34	
02 90 55 00-0338 Emergency Clean-up Personal Protection Equipment (02 90 55 00-0001)					
			Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 55 00-0339	EA		Tyvek Coveralls For Emergency Clean-up Personal Protection Equipment.....	15.72	
02 90 55 00-0340	EA		Respirator Cartridge For Emergency Clean-up Personal Protection Equipment.....	54.92	
02 90 55 00-0341	BOX		Dust Mask For Emergency Clean-up Personal Protection Equipment.....	61.23	
02 90 55 00-0342	PR		Cotton Canvas Gloves For Emergency Clean-up Personal Protection Equipment.....	4.22	
02 90 55 00-0343	BOX		5 Mil, Disposable Latex Gloves, Box of 100, For Emergency Clean-up Personal Protection Equipment.....	28.49	
02 90 55 00-0344	PR		Leather Gloves For Emergency Clean-up Personal Protection Equipment.....	14.25	
02 90 55 00-0345	EA		Heavy Duty, Rubber Gloves For Emergency Clean-up Personal Protection Equipment.....	24.33	
02 90 55 00-0346	PR		Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment.....	16.71	
02 90 55 00-0347	EA		Disposable Dual Cartridge Half-Mask Respirator For Emergency Clean-up Personal Protection Equipment.....	120.96	
02 90 55 00-0348	PR		Plastic Safety Glasses For Emergency Clean-up Personal Protection Equipment.....	7.32	
02 90 55 00-0349	EA		Safety Harness (Per Person/Day) For Emergency Clean-up Personal Protection Equipment.....	9.50	
02 90 55 00-0350 Emergency Clean-up Expendables (02 90 55 00-0001)					
			Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 55 00-0351 General Materials (02 90 55 00-0350)					
02 90 55 00-0352	GAL		Adhesive Remover For Emergency Clean-up.....	113.97	
02 90 55 00-0353	GAL		Bioside-HS Cleaning Solution For Emergency Clean-up.....	38.51	
02 90 55 00-0354	GAL		Biocide Mold Cleaning Solution For Emergency Clean-up.....	49.14	
02 90 55 00-0355	EA		10" x 12" x 15" Cardboard Storage Box For Emergency Clean-up.....	6.01	
02 90 55 00-0356	EA		10" x 12" x 24" Cardboard Storage Box For Emergency Clean-up.....	9.12	
02 90 55 00-0357	EA		10" x 15" x 24" Cardboard Storage Box For Emergency Clean-up.....	9.12	
02 90 55 00-0358	GAL		Bleach For Emergency Clean-up.....	12.26	
02 90 55 00-0359	EA		Small Stainless Brush For Emergency Clean-up.....	7.51	
02 90 55 00-0360	EA		2-1/2 Gallon Buckets For Emergency Clean-up.....	9.54	
02 90 55 00-0361	EA		5 Gallon Bucket For Emergency Clean-up.....	14.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0362 GAL Carpet Defoamer For Emergency Clean-up	37.19	
02 90 55 00-0363 GAL Carpet Pre-treat For Emergency Clean-up	27.77	
02 90 55 00-0364 GAL Carpet Spotter For Emergency Clean-up	46.54	
02 90 55 00-0365 GAL Carpet/Upholstery Cleaner For Emergency Clean-up	37.53	
02 90 55 00-0366 ROL Carpet Masking/Shield For Emergency Clean-up	104.13	
02 90 55 00-0367 EA Chemical Sponge For Emergency Clean-up	4.49	
02 90 55 00-0368 GAL Clear Seal For Emergency Clean-up	153.23	
02 90 55 00-0369 GAL Coil Cleaner For Emergency Clean-up	71.69	
02 90 55 00-0370 EA Comfort Masks, Per Box 50 For Emergency Clean-up Personal Protection Equipment.....	52.69	
02 90 55 00-0371 EA Hooded Coverall With Elastic Wrists/Ankles For Emergency Clean-up Personal Protection Equipment.....	23.30	
02 90 55 00-0372 EA Decontamination Chamber For Emergency Clean-up	311.51	
02 90 55 00-0373 GAL All Purpose Degreaser For Emergency Clean-up	50.15	
02 90 55 00-0374 GAL De-Foamer Liquid For Emergency Clean-up	65.91	
02 90 55 00-0375 EA Deodorization Membrane For Emergency Clean-up.....	129.50	
02 90 55 00-0376 GAL 9-D-9 Smoke Deodorizer For Emergency Clean-up	197.01	
02 90 55 00-0377 LB Deodorizing Gel For Emergency Clean-up	46.28	
02 90 55 00-0378 GAL Deodorizing Liquid For Emergency Clean-up	68.67	
02 90 55 00-0379 PAIL Deodorizing Block For Emergency Clean-up	11.64	
02 90 55 00-0380 GAL Disinfectant/Antimicrobial For Emergency Clean-up.....	120.09	
02 90 55 00-0381 GAL BruClean Disinfectant For Emergency Clean-up	36.47	
02 90 55 00-0382 GAL Dryclean For Emergency Clean-up.....	53.96	
02 90 55 00-0383 GAL Duct Sealant Spray For Emergency Clean-up.....	81.32	
02 90 55 00-0384 GAL Antifungal Duct Sealant For Emergency Clean-up	117.47	
02 90 55 00-0385 GAL Microbial Encapsulant (Fosters 20 - 40) For Emergency Clean-up	177.66	
02 90 55 00-0386 PR Ear Plugs For Emergency Clean-up Personal Protection Equipment	0.73	
02 90 55 00-0387 GAL Encapsulant For Emergency Clean-up.....	123.10	
02 90 55 00-0388 GAL Aftershock Fiberlocke For Emergency Clean-up	108.09	
02 90 55 00-0389 GAL IAQ 2500 Fiberlocke For Emergency Clean-up	139.48	
02 90 55 00-0390 GAL IAS 6000 Fiberlocke For Emergency Clean-up.....	143.46	
02 90 55 00-0391 ROL Filter Material For Emergency Clean-up	279.38	
02 90 55 00-0392 EA Blue Paper Collection Bag Filter For Emergency Clean-up	7.53	
02 90 55 00-0393 EA CVAC Filter For High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	597.55	
02 90 55 00-0394 EA Pre-Filter For Negative Air Machine For Emergency Clean-up.....	2.87	
02 90 55 00-0395 EA Pleated Filter For Negative Air Machine For Emergency Clean-up	12.76	
02 90 55 00-0396 EA Charcoal Filter For Negative Air Machine For Emergency Clean-up	45.44	
02 90 55 00-0397 EA High Efficiency Particulate Air (HEPA) Filter For Negative Air Machine For Emergency Clean-up.....	432.19	
02 90 55 00-0398 EA Pleated Dehumidifier Filter For Emergency Clean-up.....	11.40	
02 90 55 00-0399 GAL Floor Stripper For Emergency Clean-up	25.30	
02 90 55 00-0400 GAL Floor Wax For Emergency Clean-up	36.14	
02 90 55 00-0401 GAL Fogger (Thermal) For Emergency Clean-up.....	208.95	
02 90 55 00-0402 BOX Furniture Blocks For Emergency Clean-up	168.29	
02 90 55 00-0403 EA Furniture Polish, Per 10 Oz Can For Emergency Clean-up	22.68	
02 90 55 00-0404 GAL Glass Cleaner For Emergency Clean-up	15.12	
02 90 55 00-0405 PR Chemical Splash/Impact Resistant, Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment	27.56	
02 90 55 00-0406 EA Goof Off Spray, 12 Oz For Emergency Clean-up	18.09	
02 90 55 00-0407 EA Halogen Light Bulbs For Emergency Clean-up	25.81	
02 90 55 00-0408 QT Hand Sanitizer For Emergency Clean-up	12.76	
02 90 55 00-0409 EA Hard Hats For Emergency Clean-up Personal Protection Equipment	10.50	
02 90 55 00-0410 BOX Hog Rings, Box Of 2,500 For Emergency Clean-up	22.04	
02 90 55 00-0411 GAL HVAC Coal Cleaner For Emergency Clean-up	71.69	
02 90 55 00-0412 BOX Inventory Tag, Box Of 1,000 For Emergency Clean-up	155.04	
02 90 55 00-0413 EA Utility Knives For Emergency Clean-up	19.88	
02 90 55 00-0414 ROL 13" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	133.00	
02 90 55 00-0415 ROL 20" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	140.41	
02 90 55 00-0416 ROL 29" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	279.56	
02 90 55 00-0417 ROL 39" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	404.07	
02 90 55 00-0418 GAL Lemon Oil For Emergency Clean-up	60.78	
02 90 55 00-0419 GAL LPS 1/Mecca Lube For Emergency Clean-up	65.67	
02 90 55 00-0420 GAL LPS 2 For Emergency Clean-up	69.50	
02 90 55 00-0421 GAL LPS Contact Cleaner For Emergency Clean-up	69.18	
02 90 55 00-0422 GAL Light Lubricant Preserve For Emergency Clean-up.....	161.84	
02 90 55 00-0423 GAL Heavy Lubricant Preserver For Emergency Clean-up	36.14	
02 90 55 00-0424 GAL Machinery Cleaning Solvent For Emergency Clean-up	291.00	
02 90 55 00-0425 GAL Metal Polishing Paste For Emergency Clean-up	29.96	
02 90 55 00-0426 GAL MediClean® Disinfectant For Emergency Clean-up	73.05	
02 90 55 00-0427 GAL Dri-Eaz Milgo Plus Sanitizer For Emergency Clean-up	89.66	
02 90 55 00-0428 EA Mop Heads For Emergency Clean-up	10.80	
02 90 55 00-0429 EA Nylon Scouring Pads For Emergency Clean-up	1.99	
02 90 55 00-0430 GAL Odor Neutralizer For Emergency Clean-up	46.54	
02 90 55 00-0431 EA Packing Paper, 25 LB Bundle For Emergency Clean-up	80.62	
02 90 55 00-0432 EA Paint Brushes For Emergency Clean-up	9.04	
02 90 55 00-0433 ROL Corrugated/Craft Paper, 48" x 250' For Emergency Clean-up.....	188.02	
02 90 55 00-0434 EA Putty Knives For Emergency Clean-up.....	8.19	
02 90 55 00-0435 ROL Red Resin Paper, 200' Roll For Emergency Clean-up.....	41.03	
02 90 55 00-0436 GAL Reodorant For Emergency Clean-up	153.61	
02 90 55 00-0437 EA N95 Respirator For Emergency Clean-up Personal Protection Equipment	5.25	
02 90 55 00-0438 EA N95 Respirator With Valve For Emergency Clean-up Personal Protection Equipment	8.17	
02 90 55 00-0439 PR 3M Respirator Cartridges For Emergency Clean-up Personal Protection Equipment.....	54.79	
02 90 55 00-0440 PR P100 Respirator Cartridges For Emergency Clean-up Personal Protection Equipment	54.79	
02 90 55 00-0441 EA Respirator Cleaning Wipes, Per Box 100 For Emergency Clean-up Personal Protection Equipment	43.84	

02 Existing Conditions**02 90 Disaster Recovery****02 90 55 Emergency Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0442 GAL Restoracide For Emergency Clean-up.....	72.05	
02 90 55 00-0443 GAL Rust Remover For Emergency Clean-up.....	106.37	
02 90 55 00-0444 EA Saltesmo Test Samples For Emergency Clean-up.....	9.88	
02 90 55 00-0445 EA Sand Bag For Emergency Clean-up.....	2.59	
Note: Excludes sand material		
02 90 55 00-0446 EA Scotch-Brite 7447, Per Box 50 For Emergency Clean-up.....	32.29	
02 90 55 00-0447 EA Small Scrub Brushes For Emergency Clean-up.....	17.26	
02 90 55 00-0448 GAL Clear Soot Sealant For Emergency Clean-up.....	123.36	
02 90 55 00-0449 GAL Pigmented Soot Sealant For Emergency Clean-up.....	332.68	
02 90 55 00-0450 ROL Shrinkwrap Plastic For Emergency Clean-up.....	76.59	
02 90 55 00-0451 EA Dry Sponges For Emergency Clean-up.....	6.01	
02 90 55 00-0452 EA Spray Adhesive, Per Can For Emergency Clean-up.....	7.99	
02 90 55 00-0453 EA Spray Bot./Trigger For Emergency Clean-up.....	6.98	
02 90 55 00-0454 GAL Stain Remover For Emergency Clean-up.....	42.04	
02 90 55 00-0455 GAL Stainless Steel Cleaner For Emergency Clean-up.....	15.05	
02 90 55 00-0456 EA Stainless Steel Polish, Per Can For Emergency Clean-up.....	19.75	
02 90 55 00-0457 LB Sweeping Compound For Emergency Clean-up.....	0.66	
02 90 55 00-0458 ROL Duct Tape, 2" x 50 YD For Emergency Clean-up.....	15.63	
02 90 55 00-0459 ROL Environmental (Teal) Tape, 3/4" x 1,440' For Emergency Clean-up.....	14.70	
02 90 55 00-0460 ROL HVAC (Aluminum) Tape, 2" x 75' For Emergency Clean-up.....	39.76	
02 90 55 00-0461 ROL Blue Masking (Painters) Tape, 1-1/2" x 198' For Emergency Clean-up.....	20.93	
02 90 55 00-0462 ROL Poly Box Tape, 2" x 110 YD For Emergency Clean-up.....	6.45	
02 90 55 00-0463 LB Terry Towels For Emergency Clean-up.....	9.31	
02 90 55 00-0464 GAL Thermal Fog For Emergency Clean-up.....	94.58	
02 90 55 00-0465 ROL 1.7 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up.....	48.63	
02 90 55 00-0466 ROL 3 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up.....	119.73	
02 90 55 00-0467 ROL 4 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up.....	153.61	
02 90 55 00-0468 ROL 6 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up.....	193.92	
02 90 55 00-0469 EA Trisodium Phosphate, 20 LB Pail For Emergency Clean-up.....	65.94	
02 90 55 00-0470 EA Backpack Vacuum Bags For Emergency Clean-up.....	2.22	
02 90 55 00-0471 EA Upright Vacuum Bags For Emergency Clean-up.....	2.96	
02 90 55 00-0472 GAL Vinyl And Leather Cleaner For Emergency Clean-up.....	37.53	
02 90 55 00-0473 ROL 1 Mil Visqueen, 12' x 400', For Emergency Clean-up.....	63.00	
02 90 55 00-0474 ROL 4 Mil Visqueen, 32' x 100', For Emergency Clean-up.....	171.06	
02 90 55 00-0475 ROL 6 Mil Visqueen, 32' x 400', For Emergency Clean-up.....	233.40	
02 90 55 00-0476 LB Wipes, Cotton Cloth For Emergency Clean-up.....	6.61	
02 90 55 00-0477 ROL 12" x 750', Wrap, Bubble/Anti-Static For Emergency Clean-up.....	192.12	
02 90 55 00-0478 EA Wyp-Alls, Case Of 160 Wipes For Emergency Clean-up.....	18.77	
02 90 55 00-0479 EA Zip Wall Zippers For Emergency Clean-up.....	29.16	
02 90 55 00-0480 EA Absorbent Matt Roll For Oil And Other Liquids - 15" Wide x 50' Roll.....	32.55	
Note: 3.3 gallon volume absorption capacity per roll		
02 90 55 00-0481 EA Oil Only Sorbent Pads - 15" x 19", Light, Package Of 100.....	48.83	
Note: 26 OZ volume absorption capacity per pad		
02 90 55 00-0482 EA Oil Only Sorbent Pads - 15" x 19", Medium, Package Of 100.....	51.45	
Note: 33 OZ volume absorption capacity per pad		
02 90 55 00-0483 EA Oil Only Sorbent Pads - 15" x 19", Heavy, Package Of 100.....	84.00	
Note: 45 OZ volume absorption capacity per pad		
02 90 55 00-0484 Technical/Electronics Restoration Materials (02 90 55 00-0350)		
02 90 55 00-0485 EA Brush - Brass For Emergency Clean-up.....	6.78	
02 90 55 00-0486 EA 1" Brush, Natural Bristle For Emergency Clean-up.....	2.17	
02 90 55 00-0487 EA 1/2" Brush, Natural Bristle For Emergency Clean-up.....	1.81	
02 90 55 00-0488 EA 1/4" Brush, Natural Bristle For Emergency Clean-up.....	1.54	
02 90 55 00-0489 EA Brush - Parts For Emergency Clean-up.....	9.40	
02 90 55 00-0490 EA Brush - Plastic For Emergency Clean-up.....	4.88	
02 90 55 00-0491 EA Brush - Wire Grout For Emergency Clean-up.....	9.85	
02 90 55 00-0492 EA Brushing Tool For Emergency Clean-up.....	19.00	
02 90 55 00-0493 EA Cleaning Swabs, Cotton For Emergency Clean-up.....	0.45	
02 90 55 00-0494 EA Cleaning Swabs, Foam Tip For Emergency Clean-up.....	0.54	
02 90 55 00-0495 EA Contact Restorer, Per Can For Emergency Clean-up.....	41.09	
02 90 55 00-0496 EA Contact Spray, Per Can For Emergency Clean-up.....	27.96	
02 90 55 00-0497 UNT Corrosion Inhibitor Emitter - 1 CF For Emergency Clean-up.....	4.34	
02 90 55 00-0498 UNT Corrosion Inhibitor Emitter - 5 CF For Emergency Clean-up.....	12.42	
02 90 55 00-0499 UNT Corrosion Inhibitor Emitter - 10 CF For Emergency Clean-up.....	16.10	
02 90 55 00-0500 LB Cotton Cleaning Cloths For Emergency Clean-up.....	25.41	
02 90 55 00-0501 EA 12" x 17" Dust Cloths For Emergency Clean-up.....	0.40	
02 90 55 00-0502 EA 24" x 24" Dust Cloths For Emergency Clean-up.....	1.11	
02 90 55 00-0503 EA Deoxidizing Agent, Per Can For Emergency Clean-up.....	19.91	
02 90 55 00-0504 GAL Electronic Grade Detergent For Emergency Clean-up.....	42.22	
02 90 55 00-0505 SHT Inventory Labels For Emergency Clean-up.....	0.23	
02 90 55 00-0506 GAL Isopropyl Alcohol For Emergency Clean-up.....	111.89	
02 90 55 00-0507 GAL Lubrication/Penetrating Oil, Per Can For Emergency Clean-up.....	163.19	
02 90 55 00-0508 GAL PC Board Detergent For Emergency Clean-up.....	116.06	
02 90 55 00-0509 GAL Rust Inhibitor, Regular Duty For Emergency Clean-up.....	188.05	
02 90 55 00-0510 GAL Rust Inhibitor, Moderate Duty For Emergency Clean-up.....	189.46	
02 90 55 00-0511 GAL Rust Inhibitor, Severe Duty For Emergency Clean-up.....	202.51	
02 90 55 00-0512 LB Wipes, Lint Free Cloths For Emergency Clean-up.....	7.11	
02 90 55 00-0513 EA Wire Marker Card For Emergency Clean-up.....	3.16	
02 90 55 00-0514 EA Steel Wool, 16 Pad Sleeve For Emergency Clean-up.....	1.59	



Existing Conditions	02	02
Disaster Recovery	02 90	
Emergency Clean-up	02 90 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 02

02	02 Existing Conditions
	02 90 Disaster Recovery
	02 90 55 Emergency Clean-up



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 Concrete

03 01 Maintenance of Concrete ⁽⁰³⁾

03 01 30 Maintenance of Cast-In-Place Concrete ^(03 01)

03 01 30 51 Cleaning of Cast-In-Place Concrete ^(03 01 30)

03 01 30 51-0001	Abrasive Blasting ^(03 01 30 51)	
	Note: Includes containment and clean-up of all material. Includes steel ball media.	
03 01 30 51-0002	SF Concrete Floors, Abrasive Shot (Bead) Blasting.....	3.41
	For Up To 100, Add	2.96
	For >100 To 250, Add	0.74
	For >250 To 500, Add	0.37
	For >5,000 To 10,000, Deduct	-0.07
	For >10,000, Deduct	-0.15
03 01 30 51-0003	SF Concrete Walls, Abrasive Shot (Bead) Blasting.....	4.87
	For Up To 100, Add	5.88
	For >100 To 250, Add	1.47
	For >250 To 500, Add	0.74
	For >5,000 To 10,000, Deduct	-0.15
	For >10,000, Deduct	-0.29

03 01 30 71 Rehabilitation of Cast-In-Place Concrete ^(03 01 30)

03 01 30 71-0001	Concrete Resurfacing/Repair ^(03 01 30 71)	
03 01 30 71-0002	Concrete Repair ^(03 01 30 71-0001)	
03 01 30 71-0003	Decks Or Floors ^(03 01 30 71-0002)	
	Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0004	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar	7.03
03 01 30 71-0005	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	25.33
03 01 30 71-0006	SF Patch Decks Or Floors With White Aluminum Oxide Grit (Non Slip Aggregate)	0.68
03 01 30 71-0007	Verticals Or Overheads ^(03 01 30 71-0002)	
	Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0008	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar	10.33
03 01 30 71-0009	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	32.65
03 01 30 71-0010	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar	37.30
03 01 30 71-0011	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound	8.53
03 01 30 71-0012	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound	15.15
	Note: Rapid Set - WunderFixx	
03 01 30 71-0013	Bridge Deck Treatment ^(03 01 30 71-0002)	
03 01 30 71-0014	SF Sweep Bridge Deck	0.02
03 01 30 71-0015	SF Clean Bridge Deck	0.03
03 01 30 71-0016	SF Treat Bridge Deck With Methacrylate Resin Sealant	2.14
03 01 30 71-0017	Concrete Finishes ^(03 01 30 71-0001)	
03 01 30 71-0018	Concrete Patching ^(03 01 30 71-0017)	
03 01 30 71-0019	Walls ^(03 01 30 71-0018)	
03 01 30 71-0020	BAG Sika Top 111 Plus.....	166.41
	Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar. Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).	
	For Up To 10, Add	61.48
	For >10 To 25, Add	36.89
	For >25 To 50, Add	24.59
	For >50 To 75, Add	12.30
03 01 30 71-0021	BAG Sika Grout 212, 50 LB Bag.....	114.06
	Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	
	For Up To 10, Add	38.92
	For >10 To 25, Add	23.35
	For >25 To 50, Add	15.57
	For >50 To 75, Add	7.78
03 01 30 71-0022	EA Sika Flex 1A, 10.3 Ounce Tube.....	38.10
	Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.	
03 01 30 71-0023	BAG Pea Gravel.....	29.10
03 01 30 71-0024	Crack Repair For Concrete ^(03 01 30 71-0001)	
03 01 30 71-0025	Non Structural Crack Repair For Concrete ^(03 01 30 71-0024)	

03 Concrete**03 01 Maintenance of Concrete****03 01 30 Maintenance of Cast-In-Place Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0026 Surface Applied, Non Structural Crack Repair For Concrete <small>(03 01 30 71-0025)</small> Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.		
03 01 30 71-0027 LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	6.23	
<i>For V-Grooving Crack With Grinder, Add</i>	4.97	
03 01 30 71-0028 LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	8.14	
<i>For V-Grooving Crack With Grinder, Add</i>	4.84	
03 01 30 71-0029 LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	6.36	
<i>For V-Grooving Crack With Grinder, Add</i>	4.97	
03 01 30 71-0030 LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	8.41	
<i>For V-Grooving Crack With Grinder, Add</i>	4.84	
03 01 30 71-0031 LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	6.85	
<i>For V-Grooving Crack With Grinder, Add</i>	4.97	
03 01 30 71-0032 LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	9.39	
<i>For V-Grooving Crack With Grinder, Add</i>	4.84	
03 01 30 71-0033 LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	7.20	
<i>For V-Grooving Crack With Grinder, Add</i>	4.97	
03 01 30 71-0034 LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	10.10	
<i>For V-Grooving Crack With Grinder, Add</i>	4.84	
03 01 30 71-0035 Pressure Injected, Non Structural Crack Repair For Concrete <small>(03 01 30 71-0025)</small> Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0036 LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	28.53	
<i>For Cracks Accessible From Both Sides, Add</i>	5.81	
03 01 30 71-0037 Structural Crack Repair For Concrete <small>(03 01 30 71-0024)</small>		
03 01 30 71-0038 Surface Applied, Structural Crack Repair For Concrete <small>(03 01 30 71-0037)</small> Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.		
03 01 30 71-0039 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	7.29	
<i>For V-Grooving Crack With Grinder, Add</i>	4.97	
03 01 30 71-0040 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	10.28	
<i>For V-Grooving Crack With Grinder, Add</i>	4.84	
03 01 30 71-0041 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	7.10	
<i>For V-Grooving Crack With Grinder, Add</i>	4.97	
03 01 30 71-0042 LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	9.90	
<i>For V-Grooving Crack With Grinder, Add</i>	4.84	
03 01 30 71-0043 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	8.69	
<i>For V-Grooving Crack With Grinder, Add</i>	4.97	
03 01 30 71-0044 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	13.08	
<i>For V-Grooving Crack With Grinder, Add</i>	4.84	
03 01 30 71-0045 Pressure Injected, Structural Crack Repair For Concrete <small>(03 01 30 71-0037)</small> Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0046 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	24.72	
<i>For Cracks Accessible From Both Sides, Add</i>	5.81	
03 01 30 71-0047 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	24.53	
<i>For Cracks Accessible From Both Sides, Add</i>	5.81	
03 01 30 71-0048 Pool Deck Texture Repair <small>(03 01 30 71-0001)</small>		
03 01 30 71-0049 SF Pool Deck Texture Repair.....	18.73	
Note: Includes surface preparation, cleaning, repair of surface, crack repair, liquid underlayment coat, troweled top coat and finish.		



Concrete	03	03
Maintenance of Concrete	03 01	
Maintenance of Cast-In-Place Concrete	03 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0050 Carbon Fiber Strengthening System <small>(03 01 30 71-0001)</small> Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.		
03 01 30 71-0051 SF Carbon Fiber Strengthening System For Concrete Beams, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	85.03	
03 01 30 71-0052 SF Carbon Fiber Strengthening System For Concrete Columns, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	75.27	
03 01 30 71-0053 SF Carbon Fiber Strengthening System For Concrete Ceiling Slabs, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	69.78	
03 01 30 71-0054 SF Carbon Fiber Strengthening System For Walls, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	66.72	
03 01 30 71-0055 Corrosive Inhibitor <small>(03 01 30 71)</small>		
03 01 30 71-0056 SF Corrosive Inhibitor.....	5.79	
03 01 30 72 Strengthening Of Cast-in-Place Concrete <small>(03 01 30)</small>		
03 01 30 72-0001 Concrete Surface Repairs <small>(03 01 30 72)</small>		
03 01 30 72-0002 SF Sound The Concrete Surface To Locate Delaminated Areas	0.35	

03 05 Common Work Results For Concrete (03)

03 05 13 Concrete Admixtures (03 05)

03 05 13 00-0001 Concrete Admixtures <small>(03 05 13)</small>		
03 05 13 00-0002 CY Low Range Water Reducing (LRWR), Type A Concrete Admixture	10.16	
03 05 13 00-0003 CY Set Retarding, Type B Concrete Admixture	7.03	
03 05 13 00-0004 CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture.....	10.94	
03 05 13 00-0005 CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture.....	21.88	
03 05 13 00-0006 CY 1% Non-Chloride Accelerating, Type C Concrete Admixture.....	19.53	
03 05 13 00-0007 CY 2% Non-Chloride Accelerating, Type C Concrete Admixture.....	39.06	
03 05 13 00-0008 CY Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	8.44	
03 05 13 00-0009 CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	11.72	
03 05 13 00-0010 CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	23.44	
03 05 13 00-0011 CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	7.81	
03 05 13 00-0012 CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture.....	18.75	
03 05 13 00-0013 CY 1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	25.00	
03 05 13 00-0014 CY 25 LB/CY Steel Fibers, Concrete Admixture.....	40.81	
03 05 13 00-0015 CY 10% Microsilica (Silica Fume), Concrete Admixture	125.00	
03 05 13 00-0016 CY Corrosion Inhibiting Concrete Admixture	46.88	
03 05 13 00-0017 CY Winter Service Or Heat, Concrete Add.....	10.94	
03 05 13 00-0018 CY Chilled Water, Concrete Add	10.94	
03 05 13 00-0019 CY Subtle Color (See Davis Colors Color Card), Concrete Admixture	37.10	
03 05 13 00-0020 CY Standard Color (See Davis Colors Color Card), Concrete Admixture.....	61.83	
03 05 13 00-0021 CY Premium Color (See Davis Colors Color Card), Concrete Admixture.....	118.72	
03 05 13 00-0022 CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	164.89	

03 10 Concrete Forming and Accessories (03)

03 11 Concrete Forming (03 10)

03 11 13 Structural Cast-In-Place Concrete Forming (03 11)

Note: Per square foot of formwork.

03 11 13 00-0001 Wood Formwork <small>(03 11 13)</small> Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0002 Foundation Wood Formwork <small>(03 11 13 00-0001)</small> Note: For foundation work below or at grade.		
03 11 13 00-0003 SF Continuous Footings Foundation Wood Formwork..... For <1,000, Add For Foundations >8' Below Grade, Add For Curved Formwork, Add	8.95 1.64 1.57 3.14	
03 11 13 00-0004 SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork..... For <1,000, Add For Foundations >8' Below Grade, Add For Curved Formwork, Add	10.60 1.97 1.89 3.78	
03 11 13 00-0005 SF Mat Foundation Wood Formwork..... For <1,000, Add For Foundations >8' Below Grade, Add For Curved Formwork, Add	12.11 2.29 2.22 4.44	
03 11 13 00-0006 SF Grade Beams Or Duct Bank Foundation Wood Formwork..... For <1,000, Add For Foundations >8' Below Grade, Add For Curved Formwork, Add	10.15 1.90 1.83 3.66	

03 Concrete**03 10 Concrete Forming and Accessories****03 11 Concrete Forming**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0007	SF		Below Grade Walls Foundation Wood Formwork Note: Excludes footing	14.46	
			For <1,000, Add	2.69	
			For Foundations >8' Below Grade, Add	2.59	
			For Curved Formwork, Add	5.18	
03 11 13 00-0008			Slab Edge And Block-Out Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0009	LF		Up To 6" High Slab Edge and Block-Out Wood Formwork For Foundations >8' Below Grade, Add	6.81	
			For Curved Formwork, Add	1.25	
			For Up To 250, Add	2.49	
			For Up To 250, Add	1.28	
03 11 13 00-0010	LF		>6" To 12" High Slab Edge and Block-Out Wood Formwork For Foundations >8' Below Grade, Add	9.87	
			For Curved Formwork, Add	1.74	
			For Up To 250, Add	3.49	
			For Up To 250, Add	1.82	
03 11 13 00-0011	SF		>12" High Slab Edge and Block-Out Wood Formwork For Foundations >8' Below Grade, Add	12.59	
			For Curved Formwork, Add	2.25	
			For <1,000, Add	4.51	
			For <1,000, Add	2.34	
03 11 13 00-0012			Column Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0013	LF		Up To 8" Square Column Wood Formwork.....	53.31	
03 11 13 00-0014	LF		>8" To 12" Square Column Wood Formwork.....	77.81	
03 11 13 00-0015	LF		>12" To 18" Square Column Wood Formwork.....	97.22	
03 11 13 00-0016	LF		>18" To 24" Square Column Wood Formwork.....	138.47	
03 11 13 00-0017	LF		>24" To 36" Square Column Wood Formwork.....	198.34	
03 11 13 00-0018	LF		>36" To 48" Square Column Wood Formwork.....	261.13	
03 11 13 00-0019			Above Grade Wall Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0020	SF		Up To 8' High Above Grade Wall Wood Formwork..... For Curved Formwork, Add	16.11	
			For <1,000, Add	5.84	
			For <1,000, Add	3.02	
03 11 13 00-0021	SF		>8' High Above Grade Wall Wood Formwork For Curved Formwork, Add	19.09	
			For <1,000, Add	6.93	
			For <1,000, Add	3.58	
03 11 13 00-0022			Elevated Beam Wood Formwork (03 11 13 00-0001)		
			Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023	SF		Bottom of Elevated Beam Wood Formwork..... For Curved Formwork, Add	20.92	
			For <1,000, Add	7.59	
			For <1,000, Add	3.93	
03 11 13 00-0024	SF		Vertical Sides of Elevated Beam Wood Formwork For Curved Formwork, Add	13.33	
			For <1,000, Add	4.85	
			For <1,000, Add	2.51	
03 11 13 00-0025			Elevated Slab Wood Formwork (03 11 13 00-0001)		
			Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026	SF		Elevated Slab Wood Formwork For <1,000, Add	12.50	
			For <1,000, Add	2.26	
03 11 13 00-0027			Metal Framed Formwork (03 11 13)		
			Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0028			Foundation Metal Framed Formwork (03 11 13 00-0027)		
			Note: For foundation work below or at grade.		
03 11 13 00-0029	SF		Continuous Footings Foundation Metal Framed Formwork For <1,000, Add	7.78	
			For Foundations >8' Below Grade, Add	1.45	
			For Curved Formwork, Add	1.39	
			For Curved Formwork, Add	2.78	
03 11 13 00-0030	SF		Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork..... For <1,000, Add	8.65	
			For Foundations >8' Below Grade, Add	1.62	
			For Curved Formwork, Add	1.56	
			For Curved Formwork, Add	3.12	
03 11 13 00-0031	SF		Mat Foundation Metal Framed Formwork For <1,000, Add	9.66	
			For Foundations >8' Below Grade, Add	1.79	
			For Curved Formwork, Add	1.72	
			For Curved Formwork, Add	3.44	
03 11 13 00-0032	SF		Grade Beams Or Duct Bank Foundation Metal Framed Formwork For <1,000, Add	8.15	
			For Foundations >8' Below Grade, Add	1.51	
			For Foundations >8' Below Grade, Add	1.45	
			For Curved Formwork, Add	2.89	
03 11 13 00-0033	SF		Below Grade Walls Foundation Metal Framed Formwork..... Note: Excludes footing.	12.47	
			For <1,000, Add	2.34	
			For Foundations >8' Below Grade, Add	2.27	
			For Curved Formwork, Add	4.54	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 11 13 00-0034			Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027)		
	03 11 13 00-0035	LF		Up To 6" High Slab Edge and Block-Out Metal Framed Formwork	5.67	
				<i>For Foundations >8' Below Grade, Add</i>	1.11	
				<i>For Curved Formwork, Add</i>	2.22	
				<i>For <250, Add</i>	1.12	
	03 11 13 00-0036	LF		>6" To 12" High Slab Edge and Block-Out Metal Framed Formwork	7.08	
				<i>For Foundations >8' Below Grade, Add</i>	1.38	
				<i>For Curved Formwork, Add</i>	2.75	
				<i>For <250, Add</i>	1.39	
	03 11 13 00-0037	SF		>12" High Slab Edge and Block-Out Metal Framed Formwork	7.85	
				<i>For Foundations >8' Below Grade, Add</i>	1.52	
				<i>For Curved Formwork, Add</i>	3.04	
				<i>For <1,000, Add</i>	1.54	
	03 11 13 00-0038			Column Metal Framed Formwork (03 11 13 00-0027)		
	03 11 13 00-0039			Square Columns (03 11 13 00-0038)		
	03 11 13 00-0040	LF		Up To 12" Square Column Metal Framed Formwork	47.34	
	03 11 13 00-0041	LF		>12" To 16" Square Column Metal Framed Formwork	57.13	
	03 11 13 00-0042	LF		>16" To 20" Square Column Metal Framed Formwork	66.95	
	03 11 13 00-0043	LF		>20" To 24" Square Column Metal Framed Formwork	80.04	
	03 11 13 00-0044	LF		>24" To 30" Square Column Metal Framed Formwork	96.39	
	03 11 13 00-0045	LF		>30" To 36" Square Column Metal Framed Formwork	115.67	
	03 11 13 00-0046	LF		>36" To 48" Square Column Metal Framed Formwork	148.35	
	03 11 13 00-0047	LF		>48" To 60" Square Column Metal Framed Formwork	182.87	
	03 11 13 00-0048			Round Columns (03 11 13 00-0038)		
	03 11 13 00-0049	LF		Up To 12" Diameter Column Metal Formwork	44.37	
	03 11 13 00-0050	LF		>12" To 16" Diameter Column Metal Formwork	49.53	
	03 11 13 00-0051	LF		>16" To 20" Diameter Column Metal Formwork	57.03	
	03 11 13 00-0052	LF		>20" To 24" Diameter Column Metal Formwork	66.81	
	03 11 13 00-0053	LF		>24" To 30" Diameter Column Metal Formwork	79.11	
	03 11 13 00-0054	LF		>30" To 36" Diameter Column Metal Formwork	90.76	
	03 11 13 00-0055	LF		>36" To 48" Diameter Column Metal Formwork	116.83	
	03 11 13 00-0056	LF		>48" To 60" Diameter Column Metal Formwork	150.44	
	03 11 13 00-0057			Above Grade Wall Metal Framed Formwork (03 11 13 00-0027)		
	03 11 13 00-0058	SF		Up to 8' High Above Grade Wall Metal Framed Formwork	7.57	
				<i>For Curved Formwork, Add</i>	2.58	
				<i>For <1,000, Add</i>	1.36	
	03 11 13 00-0059	SF		>8' High Above Grade Wall Metal Framed Formwork	9.21	
				<i>For Curved Formwork, Add</i>	3.10	
				<i>For <1,000, Add</i>	1.65	
	03 11 13 00-0060			Elevated Beam Metal Framed Formwork (03 11 13 00-0027)		
				Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
	03 11 13 00-0061	SF		Bottom of Elevated Beam Metal Framed Formwork	7.62	
				<i>For Curved Formwork, Add</i>	2.41	
				<i>For <1,000, Add</i>	1.31	
	03 11 13 00-0062	SF		Vertical Sides of Elevated Beam Metal Framed Formwork	5.62	
				<i>For Curved Formwork, Add</i>	1.88	
				<i>For <1,000, Add</i>	1.00	
	03 11 13 00-0063			Elevated Slab Metal Framed Formwork (03 11 13 00-0027)		
				Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
	03 11 13 00-0064	SF		Elevated Slab Metal Framed Formwork	10.48	
				<i>For <1,000, Add</i>	1.60	
	03 11 13 00-0065			Fiber Tube Formwork (03 11 13)		
				Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.		
	03 11 13 00-0066			Round Column Fiber Tube Formwork (03 11 13 00-0065)		
	03 11 13 00-0067	LF		6" Diameter Round Fiber Tube Formwork	20.01	
				<i>For Plastic Lined, Add</i>	0.72	
				<i>For Columns >12' In Length, Add</i>	2.00	
	03 11 13 00-0068	LF		8" Diameter Round Fiber Tube Formwork	21.10	
				<i>For Plastic Lined, Add</i>	0.85	
				<i>For Columns >12' In Length, Add</i>	2.11	
	03 11 13 00-0069	LF		10" Diameter Round Fiber Tube Formwork	23.29	
				<i>For Plastic Lined, Add</i>	0.98	
				<i>For Columns >12' In Length, Add</i>	2.33	
	03 11 13 00-0070	LF		12" Diameter Round Fiber Tube Formwork	27.45	
				<i>For Plastic Lined, Add</i>	1.40	
				<i>For Columns >12' In Length, Add</i>	2.75	
	03 11 13 00-0071	LF		14" Diameter Round Fiber Tube Formwork	30.99	
				<i>For Plastic Lined, Add</i>	1.91	
				<i>For Columns >12' In Length, Add</i>	3.10	

03 Concrete**03 10 Concrete Forming and Accessories****03 11 Concrete Forming**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0072 LF 16" Diameter Round Fiber Tube Formwork	33.55	
For Plastic Lined, Add	2.41	
For Columns >12' In Length, Add	3.36	
03 11 13 00-0073 LF 18" Diameter Round Fiber Tube Formwork	35.25	
For Plastic Lined, Add	2.62	
For Columns >12' In Length, Add	3.53	
03 11 13 00-0074 LF 20" Diameter Round Fiber Tube Formwork	38.39	
For Plastic Lined, Add	3.27	
For Columns >12' In Length, Add	3.84	
03 11 13 00-0075 LF 22" Diameter Round Fiber Tube Formwork	42.01	
For Plastic Lined, Add	3.94	
For Columns >12' In Length, Add	4.20	
03 11 13 00-0076 LF 24" Diameter Round Fiber Tube Formwork	45.65	
For Plastic Lined, Add	4.62	
For Columns >12' In Length, Add	4.57	
03 11 13 00-0077 LF 26" Diameter Round Fiber Tube Formwork	47.59	
For Plastic Lined, Add	5.04	
For Columns >12' In Length, Add	4.76	
03 11 13 00-0078 LF 28" Diameter Round Fiber Tube Formwork	50.60	
For Plastic Lined, Add	5.78	
For Columns >12' In Length, Add	5.06	
03 11 13 00-0079 LF 30" Diameter Round Fiber Tube Formwork	53.82	
For Plastic Lined, Add	6.58	
For Columns >12' In Length, Add	5.38	
03 11 13 00-0080 LF 36" Diameter Round Fiber Tube Formwork	65.28	
For Plastic Lined, Add	9.42	
For Columns >12' In Length, Add	6.53	
03 11 13 00-0081 LF 42" Diameter Round Fiber Tube Formwork	88.64	
For Plastic Lined, Add	16.00	
For Columns >12' In Length, Add	8.86	
03 11 13 00-0082 LF 48" Diameter Round Fiber Tube Formwork	105.47	
For Plastic Lined, Add	20.62	
For Columns >12' In Length, Add	10.55	
03 11 13 00-0083 LF 54" Diameter Round Fiber Tube Formwork	174.63	
For Plastic Lined, Add	40.67	
For Columns >12' In Length, Add	17.46	
03 11 13 00-0084 LF 60" Diameter Round Fiber Tube Formwork	194.00	
For Plastic Lined, Add	45.96	
For Columns >12' In Length, Add	19.40	
03 11 13 00-0085 Accessories For Formwork (03 11 13)		
03 11 13 00-0086 Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087 LF 2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials	2.46	
03 11 13 00-0088 Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089 LF 1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.60	
03 11 13 00-0090 LF 3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.03	
03 11 13 00-0091 LF 1" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.50	
03 11 13 00-0092 Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093 LF 24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork	12.71	
03 11 13 00-0094 Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		
03 11 13 00-0095 EA 2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	15.28	
03 11 13 00-0096 EA 4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	18.82	
03 11 13 00-0097 EA 6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	22.79	
03 11 13 00-0098 EA 8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	26.50	
03 11 13 00-0099 EA 12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	34.34	
03 11 13 00-0100 EA 18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	80.23	
03 11 16 Architectural Cast-In-Place Concrete Forming (03 11)		
03 11 16 13 Concrete Form Liners (03 11 16)		
03 11 16 13-0001 Concrete Form Liners (03 11 16 13)		
03 11 16 13-0002 SF Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork.....	6.37	
03 11 16 13-0003 SF Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	8.05	
03 11 16 13-0004 SF Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork.....	10.53	
03 11 23 Permanent Stair Forming (03 11)		
03 11 23 00-0001 Stairway Wood Formwork (03 11 23)		
03 11 23 00-0002 SF Cast On Grade Stairway Wood Formwork.....	20.16	
For Curved Formwork, Add	7.67	
For <1,000, Add	3.90	



Concrete	03	03
Concrete Forming and Accessories	03 10	
Concrete Forming	03 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 23 00-0003	SF		Elevated Stairway Wood Formwork..... Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair. <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	39.93 15.01 7.67	
03 11 23 00-0004			Stairway Metal Framed Formwork (03 11 23)		
03 11 23 00-0005	SF		Cast On Grade Stairway Metal Framed Formwork..... <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	16.44 6.26 3.18	
03 11 23 00-0006	SF		Elevated Stairway Metal Framed Formwork..... Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair. <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	30.57 11.64 5.92	
03 15 Concrete Accessories (03 10)					
03 15 13 Waterstops (03 15)					
03 15 13 13 Non-Expanding Waterstops (03 15 13)					
03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)					
03 15 13 13-0002	LF		3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop.....	9.88	
03 15 13 13-0003	LF		3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop.....	11.19	
03 15 13 13-0004	LF		3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb.....	13.65	
03 15 13 13-0005	LF		3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb.....	15.09	
03 15 13 13-0006	LF		1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop.....	23.46	
03 15 13 13-0007	LF		3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop.....	11.31	
03 15 13 13-0008	LF		3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop.....	14.01	
03 15 13 13-0009	LF		3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop.....	25.77	
03 15 13 13-0010	LF		3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb.....	20.02	
03 15 13 13-0011 Rubber Waterstops (03 15 13 13)					
03 15 13 13-0012	LF		3/8" Thick x 6" Wide Rubber Dumbbell Waterstop.....	10.48	
03 15 13 13-0013	LF		3/8" Thick x 9" Wide Rubber Dumbbell Waterstop.....	11.97	
03 15 13 13-0014	LF		1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb.....	10.81	
03 15 13 13-0015	LF		1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb.....	14.63	
03 15 13 13-0016	LF		3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb.....	12.32	
03 15 13 13-0017	LF		3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb.....	15.61	
03 15 13 16 Expanding Waterstops (03 15 13)					
03 15 13 16-0001 Bentonite Waterstops (03 15 13 16)					
03 15 13 16-0002	LF		3/4" x 3/8" Bentonite Waterstop.....	8.90	
03 15 13 16-0003	LF		1-1/4" x 1/2" Bentonite Waterstop.....	13.90	
03 15 13 16-0004	LF		1" x 3/4" Bentonite Waterstop.....	15.67	
03 15 13 16-0005	LF		1" x 1" Bentonite Waterstop.....	17.88	
03 15 16 Concrete Construction Joints (03 15)					
03 15 16 00-0001 Poured Expansion Joint (03 15 16)					
03 15 16 00-0002	LF		1/2" x 1" Plain Asphalt Expansion Joint, Poured..... <i>For Installation In Walls, Add</i>	3.15 1.44	0.86
03 15 16 00-0003	LF		1" x 2" Plain Asphalt Expansion Joint, Poured..... <i>For Installation In Walls, Add</i>	7.13 1.62	0.86
03 15 16 00-0004	LF		1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied..... <i>For Installation In Walls, Add</i>	2.86 1.44	0.86
03 15 16 00-0005	LF		1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied..... <i>For Installation In Walls, Add</i>	5.94 1.62	0.86
03 15 16 00-0006	LF		1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts..... <i>For Installation In Walls, Add</i>	3.91 1.62	0.86
03 15 16 00-0007	LF		1" x 2" Polyurethane Expansion Joint, Poured, 2 Parts..... <i>For Installation In Walls, Add</i>	6.97 2.62	0.86
03 15 16 00-0008	LF		1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied..... <i>For Installation In Walls, Add</i>	3.51 1.44	0.86
03 15 16 00-0009	LF		1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant..... <i>For Installation In Walls, Add</i>	4.33 1.44	0.86
03 15 16 00-0010	LF		1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant..... <i>For Installation In Walls, Add</i>	11.37 1.62	0.86
03 15 16 00-0011			Premolded Expansion Joints (03 15 16)		
03 15 16 00-0012			Asphalt Saturated Fiber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0013	LF		1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.60	1.21
03 15 16 00-0014	LF		1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.96	1.27
03 15 16 00-0015	LF		1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.18	1.34
03 15 16 00-0016	LF		1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.42	1.40
03 15 16 00-0017	LF		3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.82	1.21



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0018	LF		3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.13	1.27
03 15 16 00-0019	LF		3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.49	1.34
03 15 16 00-0020	LF		3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	4.01	1.40
03 15 16 00-0021	LF		1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint	2.56	1.15
03 15 16 00-0022	LF		1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.78	1.21
03 15 16 00-0023	LF		1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.05	1.27
03 15 16 00-0024	LF		1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.26	1.34
03 15 16 00-0025	LF		1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.53	1.40
03 15 16 00-0026	LF		1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	3.90	1.46
03 15 16 00-0027	LF		1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint	4.19	1.52
03 15 16 00-0028	LF		1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint	4.67	1.58
03 15 16 00-0029	LF		3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.06	1.27
03 15 16 00-0030	LF		3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.48	1.34
03 15 16 00-0031	LF		3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	4.22	1.46
03 15 16 00-0032	SF		1" Asphalt Saturated Fiber, Premolded Expansion Joint	7.19	2.00
03 15 16 00-0033			Cork, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0034	LF		1/2" x 4" Cork, Premolded Expansion Joint	4.27	1.27
03 15 16 00-0035	LF		1/2" x 6" Cork, Premolded Expansion Joint	4.79	1.40
03 15 16 00-0036	LF		1/2" x 8" Cork, Premolded Expansion Joint	5.19	1.46
03 15 16 00-0037	LF		1/2" x 10" Cork, Premolded Expansion Joint	7.15	1.52
03 15 16 00-0038	LF		1/2" x 12" Cork, Premolded Expansion Joint	7.60	1.58
03 15 16 00-0039	SF		1/2" Cork, Premolded Expansion Joint	8.46	2.00
03 15 16 00-0040	SF		3/4" Cork, Premolded Expansion Joint	9.74	2.00
03 15 16 00-0041	SF		1" Cork, Premolded Expansion Joint	10.32	2.00
03 15 16 00-0042			Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0043	LF		1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	2.82	1.27
03 15 16 00-0044	LF		1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	2.94	1.34
03 15 16 00-0045	LF		1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.10	1.40
03 15 16 00-0046	LF		1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	3.56	1.46
03 15 16 00-0047	LF		1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	2.89	1.27
03 15 16 00-0048	LF		1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	3.02	1.34
03 15 16 00-0049	LF		1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.15	1.40
03 15 16 00-0050	LF		1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	3.44	1.46
03 15 16 00-0051			Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0052	LF		1" Zip Strip, Premolded Expansion Joint.....	2.85	1.27
03 15 16 00-0053	LF		1-1/2" Zip Strip, Premolded Expansion Joint	3.09	1.34
03 15 16 00-0054	LF		2" Zip Strip, Premolded Expansion Joint.....	3.43	1.46
03 15 16 00-0055			Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0056	LF		1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	4.74	1.21
03 15 16 00-0057	LF		1/2" x 6" Sponge Rubber, Premolded Expansion Joint.....	5.67	1.21
03 15 16 00-0058			Asphalt Felt Control Joints Or Bond Breaker (03 15 16)		
03 15 16 00-0059	SF		Asphalt Felt Control Joint, 30 LB Felt Bond Breaker.....	1.36	0.91
			>1,250, Deduct	-0.07	
03 15 16 00-0060	SF		Asphalt Felt Control Joint, 15 LB Felt Bond Breaker.....	1.29	0.91
			>1,250, Deduct	-0.06	
03 15 16 00-0061			Keyed Cold Expansion And Control Joints (03 15 16)		
03 15 16 00-0062			24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)		
03 15 16 00-0063	LF		24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint.....	7.08	
03 15 16 00-0064	LF		24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint.....	7.23	
03 15 16 00-0065	LF		24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint.....	7.51	
03 15 16 00-0066	LF		24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint.....	8.01	
03 15 16 00-0067	LF		24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint.....	10.25	
03 15 19			Cast-In Concrete Anchors (03 15)		
03 15 19 00-0001			Cast In Place Anchors (03 15 19)		
			Note: For cast in place installations. Includes nut and washer.		
03 15 19 00-0002			J-Type Anchor Bolts (03 15 19 00-0001)		
			See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0003			1/2" And 5/8" Diameter (03 15 19 00-0002)		
03 15 19 00-0004	EA		1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	10.24	
			For Galvanized, Add	1.68	
			For Stainless Steel, Add	11.73	
			For >10 To 50, Deduct	-0.34	
			For >50 To 100, Deduct	-0.77	
			For >100, Deduct	-1.55	



Concrete	03	CS
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0005 EA 1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	11.69	
For Galvanized, Add	2.14	
For Stainless Steel, Add	14.95	
For >10 To 50, Deduct	-0.37	
For >50 To 100, Deduct	-0.85	
For >100, Deduct	-1.70	
03 15 19 00-0006 EA 1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	13.93	
For Galvanized, Add	2.95	
For Stainless Steel, Add	20.62	
For >10 To 50, Deduct	-0.40	
For >50 To 100, Deduct	-0.95	
For >100, Deduct	-1.90	
03 15 19 00-0007 EA 5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	15.73	
For Galvanized, Add	3.85	
For Stainless Steel, Add	26.92	
For >10 To 50, Deduct	-0.40	
For >50 To 100, Deduct	-1.00	
For >100, Deduct	-1.99	
03 15 19 00-0008 EA 5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	19.04	
For Galvanized, Add	5.14	
For Stainless Steel, Add	35.95	
For >10 To 50, Deduct	-0.44	
For >50 To 100, Deduct	-1.13	
For >100, Deduct	-2.27	
03 15 19 00-0009 EA 5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	21.37	
For Galvanized, Add	5.87	
For Stainless Steel, Add	41.06	
For >10 To 50, Deduct	-0.48	
For >50 To 100, Deduct	-1.26	
For >100, Deduct	-2.51	
03 15 19 00-0010 3/4" And 7/8" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0011 EA 3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	21.29	
For Galvanized, Add	5.83	
For Stainless Steel, Add	40.78	
For >10 To 50, Deduct	-0.48	
For >50 To 100, Deduct	-1.26	
For >100, Deduct	-2.51	
03 15 19 00-0012 EA 3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	24.30	
For Galvanized, Add	6.79	
For Stainless Steel, Add	47.53	
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.41	
For >100, Deduct	-2.82	
03 15 19 00-0013 EA 3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	29.45	
For Galvanized, Add	8.70	
For Stainless Steel, Add	60.87	
For >10 To 50, Deduct	-0.60	
For >50 To 100, Deduct	-1.64	
For >100, Deduct	-3.28	
03 15 19 00-0014 EA 3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	35.43	
For Galvanized, Add	10.96	
For Stainless Steel, Add	76.72	
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.90	
For >100, Deduct	-3.80	
03 15 19 00-0015 EA 7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	27.98	
For Galvanized, Add	7.96	
For Stainless Steel, Add	55.72	
For >10 To 50, Deduct	-0.60	
For >50 To 100, Deduct	-1.60	
For >100, Deduct	-3.21	
03 15 19 00-0016 EA 7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	32.85	
For Galvanized, Add	9.54	
For Stainless Steel, Add	66.75	
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.85	
For >100, Deduct	-3.71	
03 15 19 00-0017 EA 7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	41.49	
For Galvanized, Add	12.71	
For Stainless Steel, Add	88.97	
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-2.24	
For >100, Deduct	-4.49	
03 15 19 00-0018 1" And 1-1/8" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0019 EA 1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	34.38	
For Galvanized, Add	10.30	
For Stainless Steel, Add	72.10	
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.89	
For >100, Deduct	-3.79	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0020	EA		1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	40.86	
			<i>For Galvanized, Add</i>	12.40	
			<i>For Stainless Steel, Add</i>	86.77	
			<i>For >10 To 50, Deduct</i>	-0.80	
			<i>For >50 To 100, Deduct</i>	-2.23	
			<i>For >100, Deduct</i>	-4.45	
03 15 19 00-0021	EA		1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	50.36	
			<i>For Galvanized, Add</i>	15.54	
			<i>For Stainless Steel, Add</i>	108.75	
			<i>For >10 To 50, Deduct</i>	-0.96	
			<i>For >50 To 100, Deduct</i>	-2.71	
			<i>For >100, Deduct</i>	-5.41	
03 15 19 00-0022	EA		1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	62.08	
			<i>For Galvanized, Add</i>	18.99	
			<i>For Stainless Steel, Add</i>	132.90	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-3.36	
			<i>For >100, Deduct</i>	-6.72	
03 15 19 00-0023	EA		1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	40.88	
			<i>For Galvanized, Add</i>	12.88	
			<i>For Stainless Steel, Add</i>	90.13	
			<i>For >10 To 50, Deduct</i>	-0.76	
			<i>For >50 To 100, Deduct</i>	-2.16	
			<i>For >100, Deduct</i>	-4.31	
03 15 19 00-0024	EA		1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	48.63	
			<i>For Galvanized, Add</i>	15.50	
			<i>For Stainless Steel, Add</i>	108.47	
			<i>For >10 To 50, Deduct</i>	-0.88	
			<i>For >50 To 100, Deduct</i>	-2.54	
			<i>For >100, Deduct</i>	-5.08	
03 15 19 00-0025	EA		1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	60.03	
			<i>For Galvanized, Add</i>	19.43	
			<i>For Stainless Steel, Add</i>	135.98	
			<i>For >10 To 50, Deduct</i>	-1.06	
			<i>For >50 To 100, Deduct</i>	-3.09	
			<i>For >100, Deduct</i>	-6.18	
03 15 19 00-0026	EA		1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	73.93	
			<i>For Galvanized, Add</i>	23.73	
			<i>For Stainless Steel, Add</i>	166.11	
			<i>For >10 To 50, Deduct</i>	-1.32	
			<i>For >50 To 100, Deduct</i>	-3.83	
			<i>For >100, Deduct</i>	-7.67	
03 15 19 00-0027			1-1/4" And 1-1/2" Diameter <small>(03 15 19 00-0002)</small>	48.95	
03 15 19 00-0028	EA		1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	48.95	
			<i>For Galvanized, Add</i>	16.10	
			<i>For Stainless Steel, Add</i>	112.67	
			<i>For >10 To 50, Deduct</i>	-0.84	
			<i>For >50 To 100, Deduct</i>	-2.48	
			<i>For >100, Deduct</i>	-4.96	
03 15 19 00-0029	EA		1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	58.28	
			<i>For Galvanized, Add</i>	19.37	
			<i>For Stainless Steel, Add</i>	135.59	
			<i>For >10 To 50, Deduct</i>	-0.98	
			<i>For >50 To 100, Deduct</i>	-2.92	
			<i>For >100, Deduct</i>	-5.85	
03 15 19 00-0030	EA		1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	72.03	
			<i>For Galvanized, Add</i>	24.29	
			<i>For Stainless Steel, Add</i>	170.00	
			<i>For >10 To 50, Deduct</i>	-1.17	
			<i>For >50 To 100, Deduct</i>	-3.56	
			<i>For >100, Deduct</i>	-7.12	
03 15 19 00-0031	EA		1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	88.64	
			<i>For Galvanized, Add</i>	29.66	
			<i>For Stainless Steel, Add</i>	207.62	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-4.42	
			<i>For >100, Deduct</i>	-8.83	
03 15 19 00-0032	EA		1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	59.02	
			<i>For Galvanized, Add</i>	20.12	
			<i>For Stainless Steel, Add</i>	140.81	
			<i>For >10 To 50, Deduct</i>	-0.94	
			<i>For >50 To 100, Deduct</i>	-2.88	
			<i>For >100, Deduct</i>	-5.77	
03 15 19 00-0033	EA		1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	70.34	
			<i>For Galvanized, Add</i>	24.21	
			<i>For Stainless Steel, Add</i>	169.47	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-3.40	
			<i>For >100, Deduct</i>	-6.81	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 15 19 00-0034	EA		1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	87.03	
				<i>For Galvanized, Add</i>	30.36	
				<i>For Stainless Steel, Add</i>	212.52	
				<i>For >10 To 50, Deduct</i>	-1.32	
				<i>For >50 To 100, Deduct</i>	-4.15	
				<i>For >100, Deduct</i>	-8.30	
	03 15 19 00-0035	EA		1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	107.04	
				<i>For Galvanized, Add</i>	37.08	
				<i>For Stainless Steel, Add</i>	259.56	
				<i>For >10 To 50, Deduct</i>	-1.64	
				<i>For >50 To 100, Deduct</i>	-5.14	
				<i>For >100, Deduct</i>	-10.28	
	03 15 19 00-0036			L-Type Anchor Bolts (03 15 19 00-0001)		
				See CSI section 03 11 13 00-0002 for template.		
	03 15 19 00-0037			3/4" And 7/8" Diameter (03 15 19 00-0036)		
	03 15 19 00-0038	EA		3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	19.63	
				<i>For Galvanized, Add</i>	4.46	
				<i>For Stainless Steel, Add</i>	31.19	
				<i>For >10 To 50, Deduct</i>	-0.54	
				<i>For >50 To 100, Deduct</i>	-1.29	
				<i>For >100, Deduct</i>	-2.59	
	03 15 19 00-0039	EA		3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	23.06	
				<i>For Galvanized, Add</i>	5.50	
				<i>For Stainless Steel, Add</i>	38.50	
				<i>For >10 To 50, Deduct</i>	-0.60	
				<i>For >50 To 100, Deduct</i>	-1.48	
				<i>For >100, Deduct</i>	-2.96	
	03 15 19 00-0040	EA		3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	26.39	
				<i>For Galvanized, Add</i>	6.31	
				<i>For Stainless Steel, Add</i>	44.14	
				<i>For >10 To 50, Deduct</i>	-0.69	
				<i>For >50 To 100, Deduct</i>	-1.69	
				<i>For >100, Deduct</i>	-3.39	
	03 15 19 00-0041	EA		3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	29.17	
				<i>For Galvanized, Add</i>	6.55	
				<i>For Stainless Steel, Add</i>	45.85	
				<i>For >10 To 50, Deduct</i>	-0.80	
				<i>For >50 To 100, Deduct</i>	-1.93	
				<i>For >100, Deduct</i>	-3.87	
	03 15 19 00-0042	EA		3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	33.04	
				<i>For Galvanized, Add</i>	6.88	
				<i>For Stainless Steel, Add</i>	48.13	
				<i>For >10 To 50, Deduct</i>	-0.96	
				<i>For >50 To 100, Deduct</i>	-2.27	
				<i>For >100, Deduct</i>	-4.55	
	03 15 19 00-0043	EA		7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	23.10	
				<i>For Galvanized, Add</i>	5.52	
				<i>For Stainless Steel, Add</i>	38.64	
				<i>For >10 To 50, Deduct</i>	-0.60	
				<i>For >50 To 100, Deduct</i>	-1.48	
				<i>For >100, Deduct</i>	-2.96	
	03 15 19 00-0044	EA		7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	26.65	
				<i>For Galvanized, Add</i>	6.44	
				<i>For Stainless Steel, Add</i>	45.05	
				<i>For >10 To 50, Deduct</i>	-0.69	
				<i>For >50 To 100, Deduct</i>	-1.70	
				<i>For >100, Deduct</i>	-3.40	
	03 15 19 00-0045	EA		7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	30.82	
				<i>For Galvanized, Add</i>	7.38	
				<i>For Stainless Steel, Add</i>	51.63	
				<i>For >10 To 50, Deduct</i>	-0.80	
				<i>For >50 To 100, Deduct</i>	-1.98	
				<i>For >100, Deduct</i>	-3.95	
	03 15 19 00-0046	EA		7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	34.61	
				<i>For Galvanized, Add</i>	7.66	
				<i>For Stainless Steel, Add</i>	53.62	
				<i>For >10 To 50, Deduct</i>	-0.96	
				<i>For >50 To 100, Deduct</i>	-2.31	
				<i>For >100, Deduct</i>	-4.62	
	03 15 19 00-0047	EA		7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	40.20	
				<i>For Galvanized, Add</i>	8.05	
				<i>For Stainless Steel, Add</i>	56.32	
				<i>For >10 To 50, Deduct</i>	-1.21	
				<i>For >50 To 100, Deduct</i>	-2.81	
				<i>For >100, Deduct</i>	-5.63	
	03 15 19 00-0048			1" And 1-1/8" Diameter (03 15 19 00-0036)		

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0049	EA		1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	27.94	
			<i>For Galvanized, Add</i>	7.08	
			<i>For Stainless Steel, Add</i>	49.56	
			<i>For >10 To 50, Deduct</i>	-0.69	
			<i>For >50 To 100, Deduct</i>	-1.73	
			<i>For >100, Deduct</i>	-3.46	
03 15 19 00-0050	EA		1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	31.99	
			<i>For Galvanized, Add</i>	7.96	
			<i>For Stainless Steel, Add</i>	55.72	
			<i>For >10 To 50, Deduct</i>	-0.80	
			<i>For >50 To 100, Deduct</i>	-2.01	
			<i>For >100, Deduct</i>	-4.01	
03 15 19 00-0051	EA		1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	37.10	
			<i>For Galvanized, Add</i>	8.91	
			<i>For Stainless Steel, Add</i>	62.34	
			<i>For >10 To 50, Deduct</i>	-0.96	
			<i>For >50 To 100, Deduct</i>	-2.37	
			<i>For >100, Deduct</i>	-4.75	
03 15 19 00-0052	EA		1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	39.62	
			<i>For Galvanized, Add</i>	9.33	
			<i>For Stainless Steel, Add</i>	65.28	
			<i>For >10 To 50, Deduct</i>	-1.05	
			<i>For >50 To 100, Deduct</i>	-2.56	
			<i>For >100, Deduct</i>	-5.13	
03 15 19 00-0053	EA		1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	43.64	
			<i>For Galvanized, Add</i>	9.77	
			<i>For Stainless Steel, Add</i>	68.36	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.90	
			<i>For >100, Deduct</i>	-5.80	
03 15 19 00-0054	EA		1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	49.42	
			<i>For Galvanized, Add</i>	11.32	
			<i>For Stainless Steel, Add</i>	79.21	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-3.24	
			<i>For >100, Deduct</i>	-6.49	
03 15 19 00-0055	EA		1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	58.64	
			<i>For Galvanized, Add</i>	13.25	
			<i>For Stainless Steel, Add</i>	92.72	
			<i>For >10 To 50, Deduct</i>	-1.61	
			<i>For >50 To 100, Deduct</i>	-3.88	
			<i>For >100, Deduct</i>	-7.75	
03 15 19 00-0056	EA		1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	34.70	
			<i>For Galvanized, Add</i>	9.32	
			<i>For Stainless Steel, Add</i>	65.21	
			<i>For >10 To 50, Deduct</i>	-0.80	
			<i>For >50 To 100, Deduct</i>	-2.07	
			<i>For >100, Deduct</i>	-4.15	
03 15 19 00-0057	EA		1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	40.14	
			<i>For Galvanized, Add</i>	10.43	
			<i>For Stainless Steel, Add</i>	72.98	
			<i>For >10 To 50, Deduct</i>	-0.96	
			<i>For >50 To 100, Deduct</i>	-2.45	
			<i>For >100, Deduct</i>	-4.90	
03 15 19 00-0058	EA		1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	42.78	
			<i>For Galvanized, Add</i>	10.91	
			<i>For Stainless Steel, Add</i>	76.34	
			<i>For >10 To 50, Deduct</i>	-1.05	
			<i>For >50 To 100, Deduct</i>	-2.64	
			<i>For >100, Deduct</i>	-5.28	
03 15 19 00-0059			1-1/4" And 1-3/8" Diameter (03 15 19 00-0036)		
03 15 19 00-0060	EA		1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	41.82	
			<i>For Galvanized, Add</i>	11.27	
			<i>For Stainless Steel, Add</i>	78.86	
			<i>For >10 To 50, Deduct</i>	-0.96	
			<i>For >50 To 100, Deduct</i>	-2.49	
			<i>For >100, Deduct</i>	-4.98	
03 15 19 00-0061	EA		1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	50.47	
			<i>For Galvanized, Add</i>	13.18	
			<i>For Stainless Steel, Add</i>	92.26	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-3.07	
			<i>For >100, Deduct</i>	-6.14	
03 15 19 00-0062	EA		1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	55.24	
			<i>For Galvanized, Add</i>	14.93	
			<i>For Stainless Steel, Add</i>	104.51	
			<i>For >10 To 50, Deduct</i>	-1.27	
			<i>For >50 To 100, Deduct</i>	-3.28	
			<i>For >100, Deduct</i>	-6.57	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0063 EA 1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	60.51	
For Galvanized, Add	16.86	
For Stainless Steel, Add	118.02	
For >10 To 50, Deduct	-1.34	
For >50 To 100, Deduct	-3.52	
For >100, Deduct	-7.04	
03 15 19 00-0064 EA 1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	66.81	
For Galvanized, Add	18.34	
For Stainless Steel, Add	128.35	
For >10 To 50, Deduct	-1.51	
For >50 To 100, Deduct	-3.93	
For >100, Deduct	-7.86	
03 15 19 00-0065 EA 1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	73.72	
For Galvanized, Add	19.64	
For Stainless Steel, Add	137.45	
For >10 To 50, Deduct	-1.72	
For >50 To 100, Deduct	-4.43	
For >100, Deduct	-8.85	
03 15 19 00-0066 EA 1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	82.22	
For Galvanized, Add	21.02	
For Stainless Steel, Add	147.11	
For >10 To 50, Deduct	-2.01	
For >50 To 100, Deduct	-5.07	
For >100, Deduct	-10.14	
03 15 19 00-0067 EA 1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	94.71	
For Galvanized, Add	23.24	
For Stainless Steel, Add	162.68	
For >10 To 50, Deduct	-2.41	
For >50 To 100, Deduct	-5.99	
For >100, Deduct	-11.97	
03 15 19 00-0068 EA 1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	47.45	
For Galvanized, Add	14.08	
For Stainless Steel, Add	98.56	
For >10 To 50, Deduct	-0.96	
For >50 To 100, Deduct	-2.63	
For >100, Deduct	-5.27	
03 15 19 00-0069 EA 1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	57.07	
For Galvanized, Add	16.48	
For Stainless Steel, Add	115.36	
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-3.24	
For >100, Deduct	-6.47	
03 15 19 00-0070 EA 1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	62.70	
For Galvanized, Add	18.66	
For Stainless Steel, Add	130.62	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-3.47	
For >100, Deduct	-6.94	
03 15 19 00-0071 EA 1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	68.93	
For Galvanized, Add	21.07	
For Stainless Steel, Add	147.49	
For >10 To 50, Deduct	-1.34	
For >50 To 100, Deduct	-3.73	
For >100, Deduct	-7.47	
03 15 19 00-0072 EA 1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	75.99	
For Galvanized, Add	22.93	
For Stainless Steel, Add	160.48	
For >10 To 50, Deduct	-1.51	
For >50 To 100, Deduct	-4.16	
For >100, Deduct	-8.32	
03 15 19 00-0073 EA 1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	83.55	
For Galvanized, Add	24.55	
For Stainless Steel, Add	171.85	
For >10 To 50, Deduct	-1.72	
For >50 To 100, Deduct	-4.67	
For >100, Deduct	-9.35	
03 15 19 00-0074 EA 1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	93.16	
For Galvanized, Add	26.49	
For Stainless Steel, Add	185.40	
For >10 To 50, Deduct	-2.01	
For >50 To 100, Deduct	-5.34	
For >100, Deduct	-10.69	
03 15 19 00-0075 EA 1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	106.34	
For Galvanized, Add	29.06	
For Stainless Steel, Add	203.39	
For >10 To 50, Deduct	-2.41	
For >50 To 100, Deduct	-6.28	
For >100, Deduct	-12.55	

03 15 19 00-0076 1-1/2", 1-3/4", And 2" Diameter (03 15 19 00-0036)

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0077	EA	1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	60.96	
		<i>For Galvanized, Add</i>	19.52	
		<i>For Stainless Steel, Add</i>	136.64	
		<i>For >10 To 50, Deduct</i>	-1.10	
		<i>For >50 To 100, Deduct</i>	-3.17	
		<i>For >100, Deduct</i>	-6.34	
03 15 19 00-0078	EA	1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	66.32	
		<i>For Galvanized, Add</i>	20.47	
		<i>For Stainless Steel, Add</i>	143.29	
		<i>For >10 To 50, Deduct</i>	-1.27	
		<i>For >50 To 100, Deduct</i>	-3.56	
		<i>For >100, Deduct</i>	-7.12	
03 15 19 00-0079	EA	1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	73.42	
		<i>For Galvanized, Add</i>	22.53	
		<i>For Stainless Steel, Add</i>	157.68	
		<i>For >10 To 50, Deduct</i>	-1.42	
		<i>For >50 To 100, Deduct</i>	-3.96	
		<i>For >100, Deduct</i>	-7.93	
03 15 19 00-0080	EA	1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	79.36	
		<i>For Galvanized, Add</i>	24.61	
		<i>For Stainless Steel, Add</i>	172.27	
		<i>For >10 To 50, Deduct</i>	-1.51	
		<i>For >50 To 100, Deduct</i>	-4.24	
		<i>For >100, Deduct</i>	-8.49	
03 15 19 00-0081	EA	1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	85.54	
		<i>For Galvanized, Add</i>	26.70	
		<i>For Stainless Steel, Add</i>	186.87	
		<i>For >10 To 50, Deduct</i>	-1.61	
		<i>For >50 To 100, Deduct</i>	-4.55	
		<i>For >100, Deduct</i>	-9.10	
03 15 19 00-0082	EA	1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	94.51	
		<i>For Galvanized, Add</i>	28.71	
		<i>For Stainless Steel, Add</i>	200.94	
		<i>For >10 To 50, Deduct</i>	-1.86	
		<i>For >50 To 100, Deduct</i>	-5.15	
		<i>For >100, Deduct</i>	-10.29	
03 15 19 00-0083	EA	1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	105.96	
		<i>For Galvanized, Add</i>	31.06	
		<i>For Stainless Steel, Add</i>	217.39	
		<i>For >10 To 50, Deduct</i>	-2.19	
		<i>For >50 To 100, Deduct</i>	-5.94	
		<i>For >100, Deduct</i>	-11.88	
03 15 19 00-0084	EA	1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	122.47	
		<i>For Galvanized, Add</i>	34.44	
		<i>For Stainless Steel, Add</i>	241.08	
		<i>For >10 To 50, Deduct</i>	-2.68	
		<i>For >50 To 100, Deduct</i>	-7.08	
		<i>For >100, Deduct</i>	-14.16	
03 15 19 00-0085	EA	1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	82.84	
		<i>For Galvanized, Add</i>	29.37	
		<i>For Stainless Steel, Add</i>	205.56	
		<i>For >10 To 50, Deduct</i>	-1.21	
		<i>For >50 To 100, Deduct</i>	-3.88	
		<i>For >100, Deduct</i>	-7.76	
03 15 19 00-0086	EA	1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	86.80	
		<i>For Galvanized, Add</i>	30.01	
		<i>For Stainless Steel, Add</i>	210.04	
		<i>For >10 To 50, Deduct</i>	-1.34	
		<i>For >50 To 100, Deduct</i>	-4.18	
		<i>For >100, Deduct</i>	-8.36	
03 15 19 00-0087	EA	1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	89.35	
		<i>For Galvanized, Add</i>	30.49	
		<i>For Stainless Steel, Add</i>	213.43	
		<i>For >10 To 50, Deduct</i>	-1.42	
		<i>For >50 To 100, Deduct</i>	-4.36	
		<i>For >100, Deduct</i>	-8.72	
03 15 19 00-0088	EA	1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	100.57	
		<i>For Galvanized, Add</i>	35.22	
		<i>For Stainless Steel, Add</i>	246.51	
		<i>For >10 To 50, Deduct</i>	-1.51	
		<i>For >50 To 100, Deduct</i>	-4.77	
		<i>For >100, Deduct</i>	-9.55	
03 15 19 00-0089	EA	1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	115.75	
		<i>For Galvanized, Add</i>	40.65	
		<i>For Stainless Steel, Add</i>	284.55	
		<i>For >10 To 50, Deduct</i>	-1.72	
		<i>For >50 To 100, Deduct</i>	-5.48	
		<i>For >100, Deduct</i>	-10.96	
03 15 19 00-0090	EA	1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	122.56	
		<i>For Galvanized, Add</i>	41.19	
		<i>For Stainless Steel, Add</i>	288.30	
		<i>For >10 To 50, Deduct</i>	-2.01	
		<i>For >50 To 100, Deduct</i>	-6.08	
		<i>For >100, Deduct</i>	-12.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0091 EA 1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	137.18	
For Galvanized, Add	44.48	
For Stainless Steel, Add	311.33	
For >10 To 50, Deduct	-2.41	
For >50 To 100, Deduct	-7.05	
For >100, Deduct	-14.09	
03 15 19 00-0092 EA 1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	156.08	
For Galvanized, Add	47.90	
For Stainless Steel, Add	335.30	
For >10 To 50, Deduct	-3.01	
For >50 To 100, Deduct	-8.42	
For >100, Deduct	-16.85	
03 15 19 00-0093 EA 2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	117.78	
For Galvanized, Add	44.71	
For Stainless Steel, Add	312.94	
For >10 To 50, Deduct	-1.42	
For >50 To 100, Deduct	-5.07	
For >100, Deduct	-10.14	
03 15 19 00-0094 EA 2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	128.81	
For Galvanized, Add	48.33	
For Stainless Steel, Add	338.31	
For >10 To 50, Deduct	-1.61	
For >50 To 100, Deduct	-5.63	
For >100, Deduct	-11.26	
03 15 19 00-0095 EA 2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	142.46	
For Galvanized, Add	52.68	
For Stainless Steel, Add	368.76	
For >10 To 50, Deduct	-1.86	
For >50 To 100, Deduct	-6.34	
For >100, Deduct	-12.69	
03 15 19 00-0096 EA 2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	155.43	
For Galvanized, Add	55.79	
For Stainless Steel, Add	390.53	
For >10 To 50, Deduct	-2.19	
For >50 To 100, Deduct	-7.17	
For >100, Deduct	-14.35	
03 15 19 00-0097 EA 2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	168.13	
For Galvanized, Add	59.95	
For Stainless Steel, Add	419.65	
For >10 To 50, Deduct	-2.41	
For >50 To 100, Deduct	-7.82	
For >100, Deduct	-15.64	
03 15 19 00-0098 EA 2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	181.62	
For Galvanized, Add	64.02	
For Stainless Steel, Add	448.11	
For >10 To 50, Deduct	-2.68	
For >50 To 100, Deduct	-8.56	
For >100, Deduct	-17.12	
03 15 19 00-0099 EA 2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	206.40	
For Galvanized, Add	68.75	
For Stainless Steel, Add	481.25	
For >10 To 50, Deduct	-3.45	
For >50 To 100, Deduct	-10.33	
For >100, Deduct	-20.66	
03 15 19 00-0100 EA 2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	220.06	
For Galvanized, Add	75.58	
For Stainless Steel, Add	529.06	
For >10 To 50, Deduct	-3.45	
For >50 To 100, Deduct	-10.67	
For >100, Deduct	-21.34	
03 15 19 00-0101 EA 2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	248.41	
For Galvanized, Add	84.02	
For Stainless Steel, Add	588.11	
For >10 To 50, Deduct	-4.02	
For >50 To 100, Deduct	-12.24	
For >100, Deduct	-24.48	
 03 15 19 00-0102 2-1/2" And 2-3/4" Diameter (03 15 19 00-0036)		
03 15 19 00-0103 EA 2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	227.01	
For Galvanized, Add	99.32	
For Stainless Steel, Add	695.24	
For >10 To 50, Deduct	-1.42	
For >50 To 100, Deduct	-7.80	
For >100, Deduct	-15.61	
03 15 19 00-0104 EA 2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	239.78	
For Galvanized, Add	103.82	
For Stainless Steel, Add	726.71	
For >10 To 50, Deduct	-1.61	
For >50 To 100, Deduct	-8.41	
For >100, Deduct	-16.81	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0105	EA		2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	262.27	
			<i>For Galvanized, Add</i>	112.59	
			<i>For Stainless Steel, Add</i>	788.10	
			<i>For >10 To 50, Deduct</i>	-1.86	
			<i>For >50 To 100, Deduct</i>	-9.34	
			<i>For >100, Deduct</i>	-18.68	
03 15 19 00-0106	EA		2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	281.15	
			<i>For Galvanized, Add</i>	118.65	
			<i>For Stainless Steel, Add</i>	830.55	
			<i>For >10 To 50, Deduct</i>	-2.19	
			<i>For >50 To 100, Deduct</i>	-10.32	
			<i>For >100, Deduct</i>	-20.64	
03 15 19 00-0107	EA		2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	298.25	
			<i>For Galvanized, Add</i>	125.01	
			<i>For Stainless Steel, Add</i>	875.07	
			<i>For >10 To 50, Deduct</i>	-2.41	
			<i>For >50 To 100, Deduct</i>	-11.07	
			<i>For >100, Deduct</i>	-22.15	
03 15 19 00-0108	EA		2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	317.86	
			<i>For Galvanized, Add</i>	132.14	
			<i>For Stainless Steel, Add</i>	924.95	
			<i>For >10 To 50, Deduct</i>	-2.68	
			<i>For >50 To 100, Deduct</i>	-11.97	
			<i>For >100, Deduct</i>	-23.93	
03 15 19 00-0109	EA		2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	347.76	
			<i>For Galvanized, Add</i>	139.43	
			<i>For Stainless Steel, Add</i>	976.01	
			<i>For >10 To 50, Deduct</i>	-3.45	
			<i>For >50 To 100, Deduct</i>	-13.86	
			<i>For >100, Deduct</i>	-27.72	
03 15 19 00-0110	EA		2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	255.02	
			<i>For Galvanized, Add</i>	112.44	
			<i>For Stainless Steel, Add</i>	787.08	
			<i>For >10 To 50, Deduct</i>	-1.51	
			<i>For >50 To 100, Deduct</i>	-8.64	
			<i>For >100, Deduct</i>	-17.27	
03 15 19 00-0111	EA		2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	275.00	
			<i>For Galvanized, Add</i>	120.28	
			<i>For Stainless Steel, Add</i>	841.93	
			<i>For >10 To 50, Deduct</i>	-1.72	
			<i>For >50 To 100, Deduct</i>	-9.46	
			<i>For >100, Deduct</i>	-18.92	
03 15 19 00-0112	EA		2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	296.56	
			<i>For Galvanized, Add</i>	128.19	
			<i>For Stainless Steel, Add</i>	897.30	
			<i>For >10 To 50, Deduct</i>	-2.01	
			<i>For >50 To 100, Deduct</i>	-10.43	
			<i>For >100, Deduct</i>	-20.86	
03 15 19 00-0113	EA		2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	318.85	
			<i>For Galvanized, Add</i>	135.31	
			<i>For Stainless Steel, Add</i>	947.17	
			<i>For >10 To 50, Deduct</i>	-2.41	
			<i>For >50 To 100, Deduct</i>	-11.59	
			<i>For >100, Deduct</i>	-23.18	
03 15 19 00-0114	EA		2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	339.78	
			<i>For Galvanized, Add</i>	143.10	
			<i>For Stainless Steel, Add</i>	1,001.67	
			<i>For >10 To 50, Deduct</i>	-2.68	
			<i>For >50 To 100, Deduct</i>	-12.51	
			<i>For >100, Deduct</i>	-25.03	
03 15 19 00-0115	EA		2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	368.58	
			<i>For Galvanized, Add</i>	154.15	
			<i>For Stainless Steel, Add</i>	1,079.05	
			<i>For >10 To 50, Deduct</i>	-3.01	
			<i>For >50 To 100, Deduct</i>	-13.74	
			<i>For >100, Deduct</i>	-27.47	
03 15 19 00-0116	EA		2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	405.63	
			<i>For Galvanized, Add</i>	162.63	
			<i>For Stainless Steel, Add</i>	1,138.38	
			<i>For >10 To 50, Deduct</i>	-4.02	
			<i>For >50 To 100, Deduct</i>	-16.17	
			<i>For >100, Deduct</i>	-32.34	

03 20 Concrete Reinforcing ⁽⁰³⁾

Note: Includes cutting or torching to size, bending where necessary and tie wires.

03 21 Reinforcement Bars ^(03 20)

Note: Includes cutting, bending, tie wire, tying, bar chairs and all non-mechanical splicing. The weights of reinforcing steel shall be used as follows: #2 - 0.167 Lbs./LF, #3 - 0.376 Lbs./LF, #4 - 0.668 Lbs./LF, #5 - 1.043 Lbs./LF, #6 - 1.502 Lbs./LF, #7 - 2.044 Lbs./LF, #8 - 2.670 Lbs./LF, #9 - 3.400 Lbs./LF, #10 - 4.303 Lbs./LF, #11 - 5.313 Lbs./LF, #14 - 7.650 Lbs./LF, #18 - 13.600 Lbs./LF.

03 21 11 Plain Steel Reinforcement Bars ^(03 21)**03 21 11 00-0001 Beams And Girders, Steel Reinforcement Bar** ^(03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0002 LF #3, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.68	
For Up To 100, Add	0.43	
For >100 To 200, Add	0.24	
For >200 To 500, Add	0.10	
03 21 11 00-0003 LF #4, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.15	
For Up To 100, Add	0.75	
For >100 To 200, Add	0.41	
For >200 To 500, Add	0.16	
03 21 11 00-0004 LF #5, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.72	
For Up To 100, Add	1.14	
For >100 To 200, Add	0.62	
For >200 To 500, Add	0.25	
03 21 11 00-0005 LF #6, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	2.37	
For Up To 100, Add	1.61	
For >100 To 200, Add	0.87	
For >200 To 500, Add	0.35	
03 21 11 00-0006 LF #3, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	0.70	
For Up To 100, Add	0.45	
For >100 To 200, Add	0.25	
For >200 To 500, Add	0.10	
03 21 11 00-0007 LF #4, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.17	
For Up To 100, Add	0.77	
For >100 To 200, Add	0.42	
For >200 To 500, Add	0.17	
03 21 11 00-0008 LF #5, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.76	
For Up To 100, Add	1.18	
For >100 To 200, Add	0.64	
For >200 To 500, Add	0.26	
03 21 11 00-0009 LF #6, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	2.42	
For Up To 100, Add	1.66	
For >100 To 200, Add	0.89	
For >200 To 500, Add	0.36	
03 21 11 00-0010 LF #3, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.72	
For Up To 100, Add	0.47	
For >100 To 200, Add	0.26	
For >200 To 500, Add	0.10	
03 21 11 00-0011 LF #4, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.21	
For Up To 100, Add	0.81	
For >100 To 200, Add	0.44	
For >200 To 500, Add	0.18	
03 21 11 00-0012 LF #5, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.82	
For Up To 100, Add	1.24	
For >100 To 200, Add	0.67	
For >200 To 500, Add	0.27	
03 21 11 00-0013 LF #6, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.51	
For Up To 100, Add	1.75	
For >100 To 200, Add	0.94	
For >200 To 500, Add	0.38	
03 21 11 00-0014 LF #7, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.25	
For Up To 100, Add	1.81	
For >100 To 200, Add	1.06	
For >200 To 400, Add	0.49	
03 21 11 00-0015 LF #8, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	4.04	
For Up To 100, Add	2.29	
For >100 To 200, Add	1.34	
For >200 To 400, Add	0.62	
03 21 11 00-0016 LF #9, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	4.96	
For Up To 100, Add	2.86	
For >100 To 200, Add	1.66	
For >200 To 400, Add	0.78	
03 21 11 00-0017 LF #10, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	6.05	
For Up To 100, Add	2.88	
For >100 To 200, Add	1.56	
For >200 To 300, Add	0.78	
03 21 11 00-0018 LF #11, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	7.18	
For Up To 100, Add	3.47	
For >100 To 200, Add	1.87	
For >200 To 300, Add	0.94	
03 21 11 00-0019 LF #14, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	9.94	
For Up To 100, Add	4.87	
For >100 To 200, Add	2.62	
For >200 To 300, Add	1.31	
03 21 11 00-0020 LF #18, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	16.95	
For Up To 100, Add	8.44	
For >100 To 200, Add	4.51	
For >200 To 300, Add	2.25	
03 21 11 00-0021 LF #6, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.59	
For Up To 100, Add	1.83	
For >100 To 200, Add	0.98	
For >200 To 500, Add	0.39	
03 21 11 00-0022 LF #7, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.36	
For Up To 100, Add	1.89	
For >100 To 200, Add	1.11	
For >200 To 400, Add	0.52	

03	Concrete
03 20	Concrete Reinforcing
03 21	Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0023	LF	#8, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	4.18	
		For Up To 100, Add		2.40	
		For >100 To 200, Add		1.40	
		For >200 To 400, Add		0.65	
03 21 11 00-0024	LF	#9, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	5.14	
		For Up To 100, Add		2.99	
		For >100 To 200, Add		1.73	
		For >200 To 400, Add		0.81	
03 21 11 00-0025	LF	#10, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	6.29	
		For Up To 100, Add		3.02	
		For >100 To 200, Add		1.64	
		For >200 To 300, Add		0.82	
03 21 11 00-0026	LF	#11, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	7.47	
		For Up To 100, Add		3.64	
		For >100 To 200, Add		1.96	
		For >200 To 300, Add		0.98	
03 21 11 00-0027	LF	#14, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	10.36	
		For Up To 100, Add		5.12	
		For >100 To 200, Add		2.74	
		For >200 To 300, Add		1.37	
03 21 11 00-0028	LF	#18, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	17.69	
		For Up To 100, Add		8.89	
		For >100 To 200, Add		4.73	
		For >200 To 300, Add		2.37	
03 21 11 00-0029	LF	#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	0.73	
		For Up To 100, Add		0.48	
		For >100 To 200, Add		0.26	
		For >200 To 500, Add		0.11	
03 21 11 00-0030	LF	#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	1.24	
		For Up To 100, Add		0.84	
		For >100 To 200, Add		0.46	
		For >200 To 500, Add		0.18	
03 21 11 00-0031	LF	#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	1.86	
		For Up To 100, Add		1.28	
		For >100 To 200, Add		0.69	
		For >200 To 500, Add		0.28	
03 21 11 00-0032	LF	#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	2.57	
		For Up To 100, Add		1.81	
		For >100 To 200, Add		0.97	
		For >200 To 500, Add		0.39	
03 21 11 00-0033	LF	#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	3.34	
		For Up To 100, Add		1.88	
		For >100 To 200, Add		1.10	
		For >200 To 400, Add		0.51	
03 21 11 00-0034	LF	#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	4.15	
		For Up To 100, Add		2.38	
		For >100 To 200, Add		1.38	
		For >200 To 400, Add		0.65	
03 21 11 00-0035	LF	#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	5.10	
		For Up To 100, Add		2.96	
		For >100 To 200, Add		1.72	
		For >200 To 400, Add		0.80	
03 21 11 00-0036	LF	#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	6.23	
		For Up To 100, Add		2.99	
		For >100 To 200, Add		1.62	
		For >200 To 300, Add		0.81	
03 21 11 00-0037	LF	#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	7.40	
		For Up To 100, Add		3.60	
		For >100 To 200, Add		1.94	
		For >200 To 300, Add		0.97	
03 21 11 00-0038	LF	#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	10.26	
		For Up To 100, Add		5.06	
		For >100 To 200, Add		2.71	
		For >200 To 300, Add		1.36	
03 21 11 00-0039	LF	#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	17.51	
		For Up To 100, Add		8.78	
		For >100 To 200, Add		4.68	
		For >200 To 300, Add		2.34	
03 21 11 00-0040		Columns, Steel Reinforcement Bar <small>(03 21 11)</small>			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0041	LF	#3, Grade 40, Columns, Steel Reinforcement Bar	.....	0.71	
		For Up To 100, Add		0.45	
		For >100 To 200, Add		0.25	
		For >200 To 500, Add		0.10	
03 21 11 00-0042	LF	#4, Grade 40, Columns, Steel Reinforcement Bar	.....	1.23	
		For Up To 100, Add		0.79	
		For >100 To 200, Add		0.43	
		For >200 To 500, Add		0.17	
03 21 11 00-0043	LF	#5, Grade 40, Columns, Steel Reinforcement Bar	.....	1.81	
		For Up To 100, Add		1.18	
		For >100 To 200, Add		0.64	
		For >200 To 500, Add		0.26	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0044 LF #6, Grade 40, Columns, Steel Reinforcement Bar.....	2.50	
For Up To 100, Add	1.66	
For >100 To 200, Add	0.90	
For >200 To 500, Add	0.36	
03 21 11 00-0045 LF #3, Grade 50, Columns, Steel Reinforcement Bar.....	0.73	
For Up To 100, Add	0.47	
For >100 To 200, Add	0.26	
For >200 To 500, Add	0.10	
03 21 11 00-0046 LF #4, Grade 50, Columns, Steel Reinforcement Bar.....	1.25	
For Up To 100, Add	0.81	
For >100 To 200, Add	0.44	
For >200 To 500, Add	0.18	
03 21 11 00-0047 LF #5, Grade 50, Columns, Steel Reinforcement Bar.....	1.85	
For Up To 100, Add	1.22	
For >100 To 200, Add	0.66	
For >200 To 500, Add	0.27	
03 21 11 00-0048 LF #6, Grade 50, Columns, Steel Reinforcement Bar.....	2.55	
For Up To 100, Add	1.71	
For >100 To 200, Add	0.93	
For >200 To 500, Add	0.37	
03 21 11 00-0049 LF #3, Grade 60, Columns, Steel Reinforcement Bar.....	0.75	
For Up To 100, Add	0.49	
For >100 To 200, Add	0.27	
For >200 To 500, Add	0.11	
03 21 11 00-0050 LF #4, Grade 60, Columns, Steel Reinforcement Bar.....	1.29	
For Up To 100, Add	0.85	
For >100 To 200, Add	0.46	
For >200 To 500, Add	0.18	
03 21 11 00-0051 LF #5, Grade 60, Columns, Steel Reinforcement Bar.....	1.91	
For Up To 100, Add	1.28	
For >100 To 200, Add	0.69	
For >200 To 500, Add	0.28	
03 21 11 00-0052 LF #6, Grade 60, Columns, Steel Reinforcement Bar.....	2.64	
For Up To 100, Add	1.80	
For >100 To 200, Add	0.97	
For >200 To 500, Add	0.39	
03 21 11 00-0053 LF #7, Grade 60, Columns, Steel Reinforcement Bar.....	3.41	
For Up To 100, Add	1.87	
For >100 To 200, Add	1.10	
For >200 To 400, Add	0.51	
03 21 11 00-0054 LF #8, Grade 60, Columns, Steel Reinforcement Bar.....	4.22	
For Up To 100, Add	2.36	
For >100 To 200, Add	1.39	
For >200 To 400, Add	0.64	
03 21 11 00-0055 LF #9, Grade 60, Columns, Steel Reinforcement Bar.....	5.17	
For Up To 100, Add	2.93	
For >100 To 200, Add	1.71	
For >200 To 400, Add	0.80	
03 21 11 00-0056 LF #10, Grade 60, Columns, Steel Reinforcement Bar.....	6.29	
For Up To 100, Add	2.95	
For >100 To 200, Add	1.61	
For >200 To 300, Add	0.81	
03 21 11 00-0057 LF #11, Grade 60, Columns, Steel Reinforcement Bar.....	7.46	
For Up To 100, Add	3.55	
For >100 To 200, Add	1.93	
For >200 To 300, Add	0.96	
03 21 11 00-0058 LF #14, Grade 60, Columns, Steel Reinforcement Bar.....	10.30	
For Up To 100, Add	4.98	
For >100 To 200, Add	2.69	
For >200 To 300, Add	1.34	
03 21 11 00-0059 LF #18, Grade 60, Columns, Steel Reinforcement Bar.....	17.52	
For Up To 100, Add	8.61	
For >100 To 200, Add	4.62	
For >200 To 300, Add	2.31	
03 21 11 00-0060 LF #6, Grade 75, Columns, Steel Reinforcement Bar.....	2.72	
For Up To 100, Add	1.88	
For >100 To 200, Add	1.01	
For >200 To 500, Add	0.40	
03 21 11 00-0061 LF #7, Grade 75, Columns, Steel Reinforcement Bar.....	3.52	
For Up To 100, Add	1.95	
For >100 To 200, Add	1.15	
For >200 To 400, Add	0.53	
03 21 11 00-0062 LF #8, Grade 75, Columns, Steel Reinforcement Bar.....	4.36	
For Up To 100, Add	2.46	
For >100 To 200, Add	1.44	
For >200 To 400, Add	0.67	
03 21 11 00-0063 LF #9, Grade 75, Columns, Steel Reinforcement Bar.....	5.35	
For Up To 100, Add	3.06	
For >100 To 200, Add	1.78	
For >200 To 400, Add	0.83	
03 21 11 00-0064 LF #10, Grade 75, Columns, Steel Reinforcement Bar.....	6.53	
For Up To 100, Add	3.09	
For >100 To 200, Add	1.68	
For >200 To 300, Add	0.84	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0065	LF		#11, Grade 75, Columns, Steel Reinforcement Bar	7.75	
			For Up To 100, Add	3.72	
			For >100 To 200, Add	2.02	
			For >200 To 300, Add	1.01	
03 21 11 00-0066	LF		#14, Grade 75, Columns, Steel Reinforcement Bar	10.72	
			For Up To 100, Add	5.23	
			For >100 To 200, Add	2.82	
			For >200 To 300, Add	1.41	
03 21 11 00-0067	LF		#18, Grade 75, Columns, Steel Reinforcement Bar	18.26	
			For Up To 100, Add	9.06	
			For >100 To 200, Add	4.85	
			For >200 To 300, Add	2.42	
03 21 11 00-0068	LF		#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	0.76	
			For Up To 100, Add	0.50	
			For >100 To 200, Add	0.27	
			For >200 To 500, Add	0.11	
03 21 11 00-0069	LF		#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	1.32	
			For Up To 100, Add	0.88	
			For >100 To 200, Add	0.48	
			For >200 To 500, Add	0.19	
03 21 11 00-0070	LF		#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	1.95	
			For Up To 100, Add	1.32	
			For >100 To 200, Add	0.71	
			For >200 To 500, Add	0.29	
03 21 11 00-0071	LF		#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	2.70	
			For Up To 100, Add	1.86	
			For >100 To 200, Add	1.00	
			For >200 To 500, Add	0.40	
03 21 11 00-0072	LF		#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	3.50	
			For Up To 100, Add	1.93	
			For >100 To 200, Add	1.14	
			For >200 To 400, Add	0.53	
03 21 11 00-0073	LF		#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	4.33	
			For Up To 100, Add	2.44	
			For >100 To 200, Add	1.43	
			For >200 To 400, Add	0.66	
03 21 11 00-0074	LF		#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	5.31	
			For Up To 100, Add	3.03	
			For >100 To 200, Add	1.77	
			For >200 To 400, Add	0.83	
03 21 11 00-0075	LF		#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	6.47	
			For Up To 100, Add	3.06	
			For >100 To 200, Add	1.67	
			For >200 To 300, Add	0.83	
03 21 11 00-0076	LF		#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	7.68	
			For Up To 100, Add	3.68	
			For >100 To 200, Add	2.00	
			For >200 To 300, Add	1.00	
03 21 11 00-0077	LF		#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	10.62	
			For Up To 100, Add	5.17	
			For >100 To 200, Add	2.79	
			For >200 To 300, Add	1.39	
03 21 11 00-0078	LF		#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	18.08	
			For Up To 100, Add	8.95	
			For >100 To 200, Add	4.79	
			For >200 To 300, Add	2.40	
03 21 11 00-0079			Footings, Steel Reinforcement Bar <small>(03 21 11)</small>		
			Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0080	LF		#3, Grade 40, Footings, Steel Reinforcement Bar	0.62	
			For Up To 100, Add	0.41	
			For >100 To 200, Add	0.22	
			For >200 To 500, Add	0.09	
03 21 11 00-0081	LF		#4, Grade 40, Footings, Steel Reinforcement Bar	1.06	
			For Up To 100, Add	0.72	
			For >100 To 200, Add	0.39	
			For >200 To 500, Add	0.16	
03 21 11 00-0082	LF		#5, Grade 40, Footings, Steel Reinforcement Bar	1.58	
			For Up To 100, Add	1.09	
			For >100 To 200, Add	0.59	
			For >200 To 500, Add	0.23	
03 21 11 00-0083	LF		#6, Grade 40, Footings, Steel Reinforcement Bar	2.19	
			For Up To 100, Add	1.54	
			For >100 To 200, Add	0.82	
			For >200 To 500, Add	0.33	
03 21 11 00-0084	LF		#3, Grade 50, Footings, Steel Reinforcement Bar	0.64	
			For Up To 100, Add	0.43	
			For >100 To 200, Add	0.23	
			For >200 To 500, Add	0.09	
03 21 11 00-0085	LF		#4, Grade 50, Footings, Steel Reinforcement Bar	1.08	
			For Up To 100, Add	0.74	
			For >100 To 200, Add	0.40	
			For >200 To 500, Add	0.16	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0086 LF #5, Grade 50, Footings, Steel Reinforcement Bar	1.62	
For Up To 100, Add	1.13	
For >100 To 200, Add	0.61	
For >200 To 500, Add	0.24	
03 21 11 00-0087 LF #6, Grade 50, Footings, Steel Reinforcement Bar	2.24	
For Up To 100, Add	1.59	
For >100 To 200, Add	0.85	
For >200 To 500, Add	0.34	
03 21 11 00-0088 LF #3, Grade 60, Footings, Steel Reinforcement Bar	0.66	
For Up To 100, Add	0.45	
For >100 To 200, Add	0.24	
For >200 To 500, Add	0.10	
03 21 11 00-0089 LF #4, Grade 60, Footings, Steel Reinforcement Bar	1.12	
For Up To 100, Add	0.78	
For >100 To 200, Add	0.42	
For >200 To 500, Add	0.17	
03 21 11 00-0090 LF #5, Grade 60, Footings, Steel Reinforcement Bar	1.68	
For Up To 100, Add	1.19	
For >100 To 200, Add	0.64	
For >200 To 500, Add	0.25	
03 21 11 00-0091 LF #6, Grade 60, Footings, Steel Reinforcement Bar	2.33	
For Up To 100, Add	1.68	
For >100 To 200, Add	0.89	
For >200 To 500, Add	0.36	
03 21 11 00-0092 LF #7, Grade 60, Footings, Steel Reinforcement Bar	3.02	
For Up To 100, Add	1.73	
For >100 To 200, Add	1.01	
For >200 To 400, Add	0.47	
03 21 11 00-0093 LF #8, Grade 60, Footings, Steel Reinforcement Bar	3.77	
For Up To 100, Add	2.20	
For >100 To 200, Add	1.27	
For >200 To 400, Add	0.60	
03 21 11 00-0094 LF #9, Grade 60, Footings, Steel Reinforcement Bar	4.63	
For Up To 100, Add	2.74	
For >100 To 200, Add	1.58	
For >200 To 400, Add	0.74	
03 21 11 00-0095 LF #10, Grade 60, Footings, Steel Reinforcement Bar	5.67	
For Up To 100, Add	3.40	
For >100 To 200, Add	1.95	
For >200 To 400, Add	0.92	
For Up To 100, Add	2.76	
For >100 To 200, Add	1.49	
For >200 To 300, Add	0.74	
03 21 11 00-0096 LF #11, Grade 60, Footings, Steel Reinforcement Bar	6.76	
For Up To 100, Add	4.11	
For >100 To 200, Add	2.35	
For >200 To 400, Add	1.11	
For Up To 100, Add	3.34	
For >100 To 200, Add	1.79	
For >200 To 300, Add	0.89	
03 21 11 00-0097 LF #14, Grade 60, Footings, Steel Reinforcement Bar	9.39	
For Up To 100, Add	5.80	
For >100 To 200, Add	3.29	
For >200 To 400, Add	1.57	
For Up To 100, Add	4.70	
For >100 To 200, Add	2.51	
For >200 To 300, Add	1.25	
03 21 11 00-0098 LF #18, Grade 60, Footings, Steel Reinforcement Bar	16.08	
For Up To 100, Add	10.10	
For >100 To 200, Add	5.70	
For >200 To 400, Add	2.73	
For Up To 100, Add	8.18	
For >100 To 200, Add	4.34	
For >200 To 300, Add	2.17	
03 21 11 00-0099 LF #6, Grade 75, Footings, Steel Reinforcement Bar	2.41	
For Up To 100, Add	1.76	
For >100 To 200, Add	0.93	
For >200 To 500, Add	0.37	
For Up To 100, Add	1.37	
For >100 To 200, Add	0.80	
For >200 To 400, Add	0.37	
03 21 11 00-0100 LF #7, Grade 75, Footings, Steel Reinforcement Bar	3.13	
For Up To 100, Add	1.81	
For >100 To 200, Add	1.05	
For >200 To 400, Add	0.49	
03 21 11 00-0101 LF #8, Grade 75, Footings, Steel Reinforcement Bar	3.91	
For Up To 100, Add	2.30	
For >100 To 200, Add	1.33	
For >200 To 400, Add	0.63	
03 21 11 00-0102 LF #9, Grade 75, Footings, Steel Reinforcement Bar	4.81	
For Up To 100, Add	2.88	
For >100 To 200, Add	1.65	
For >200 To 400, Add	0.78	
03 21 11 00-0103 LF #10, Grade 75, Footings, Steel Reinforcement Bar	5.91	
For Up To 100, Add	2.91	
For >100 To 200, Add	1.56	
For >200 To 300, Add	0.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0104	LF		#11, Grade 75, Footings, Steel Reinforcement Bar	7.05	
			For Up To 100, Add	3.51	
			For >100 To 200, Add	1.88	
			For >200 To 300, Add	0.94	
03 21 11 00-0105	LF		#14, Grade 75, Footings, Steel Reinforcement Bar	9.81	
			For Up To 100, Add	4.96	
			For >100 To 200, Add	2.63	
			For >200 To 300, Add	1.32	
03 21 11 00-0106	LF		#18, Grade 75, Footings, Steel Reinforcement Bar	16.82	
			For Up To 100, Add	8.63	
			For >100 To 200, Add	4.56	
			For >200 To 300, Add	2.28	
03 21 11 00-0107	LF		#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.67	
			For Up To 100, Add	0.46	
			For >100 To 200, Add	0.25	
			For >200 To 500, Add	0.10	
03 21 11 00-0108	LF		#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.15	
			For Up To 100, Add	0.81	
			For >100 To 200, Add	0.43	
			For >200 To 500, Add	0.17	
03 21 11 00-0109	LF		#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.72	
			For Up To 100, Add	1.23	
			For >100 To 200, Add	0.66	
			For >200 To 500, Add	0.26	
03 21 11 00-0110	LF		#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.39	
			For Up To 100, Add	1.74	
			For >100 To 200, Add	0.92	
			For >200 To 500, Add	0.37	
03 21 11 00-0111	LF		#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.11	
			For Up To 100, Add	1.80	
			For >100 To 200, Add	1.04	
			For >200 To 400, Add	0.49	
03 21 11 00-0112	LF		#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.88	
			For Up To 100, Add	2.28	
			For >100 To 200, Add	1.32	
			For >200 To 400, Add	0.62	
03 21 11 00-0113	LF		#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.77	
			For Up To 100, Add	2.85	
			For >100 To 200, Add	1.63	
			For >200 To 400, Add	0.77	
03 21 11 00-0114	LF		#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	5.85	
			For Up To 100, Add	2.87	
			For >100 To 200, Add	1.54	
			For >200 To 300, Add	0.77	
03 21 11 00-0115	LF		#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	6.98	
			For Up To 100, Add	3.47	
			For >100 To 200, Add	1.86	
			For >200 To 300, Add	0.93	
03 21 11 00-0116	LF		#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	9.71	
			For Up To 100, Add	4.90	
			For >100 To 200, Add	2.60	
			For >200 To 300, Add	1.30	
03 21 11 00-0117	LF		#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	16.64	
			For Up To 100, Add	8.52	
			For >100 To 200, Add	4.50	
			For >200 To 300, Add	2.25	
03 21 11 00-0118			Slab On Grade, Steel Reinforcement Bar (03 21 11)		
			Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0119	LF		#3, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.60	
			For Up To 100, Add	0.40	
			For >100 To 200, Add	0.22	
			For >200 To 500, Add	0.09	
03 21 11 00-0120	LF		#4, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.03	
			For Up To 100, Add	0.71	
			For >100 To 200, Add	0.38	
			For >200 To 500, Add	0.15	
03 21 11 00-0121	LF		#5, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.53	
			For Up To 100, Add	1.07	
			For >100 To 200, Add	0.57	
			For >200 To 500, Add	0.23	
03 21 11 00-0122	LF		#6, Grade 40, Slab On Grade, Steel Reinforcement Bar	2.11	
			For Up To 100, Add	1.50	
			For >100 To 200, Add	0.80	
			For >200 To 500, Add	0.32	
03 21 11 00-0123	LF		#3, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.62	
			For Up To 100, Add	0.42	
			For >100 To 200, Add	0.23	
			For >200 To 500, Add	0.09	
03 21 11 00-0124	LF		#4, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.05	
			For Up To 100, Add	0.73	
			For >100 To 200, Add	0.39	
			For >200 To 500, Add	0.16	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0125 LF #5, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.57	
<i>For Up To 100, Add</i>	1.11	
<i>For >100 To 200, Add</i>	0.59	
<i>For >200 To 500, Add</i>	0.24	
03 21 11 00-0126 LF #6, Grade 50, Slab On Grade, Steel Reinforcement Bar	2.16	
<i>For Up To 100, Add</i>	1.55	
<i>For >100 To 200, Add</i>	0.83	
<i>For >200 To 500, Add</i>	0.33	
03 21 11 00-0127 LF #3, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.64	
<i>For Up To 100, Add</i>	0.44	
<i>For >100 To 200, Add</i>	0.24	
<i>For >200 To 500, Add</i>	0.10	
03 21 11 00-0128 LF #4, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.09	
<i>For Up To 100, Add</i>	0.77	
<i>For >100 To 200, Add</i>	0.41	
<i>For >200 To 500, Add</i>	0.16	
03 21 11 00-0129 LF #5, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.63	
<i>For Up To 100, Add</i>	1.17	
<i>For >100 To 200, Add</i>	0.62	
<i>For >200 To 500, Add</i>	0.25	
03 21 11 00-0130 LF #6, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.25	
<i>For Up To 100, Add</i>	1.64	
<i>For >100 To 200, Add</i>	0.87	
<i>For >200 To 500, Add</i>	0.35	
03 21 11 00-0131 LF #7, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.94	
<i>For Up To 100, Add</i>	1.70	
<i>For >100 To 200, Add</i>	0.99	
<i>For >200 To 400, Add</i>	0.46	
03 21 11 00-0132 LF #8, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.68	
<i>For Up To 100, Add</i>	2.17	
<i>For >100 To 200, Add</i>	1.25	
<i>For >200 To 400, Add</i>	0.59	
03 21 11 00-0133 LF #9, Grade 60, Slab On Grade, Steel Reinforcement Bar	4.53	
<i>For Up To 100, Add</i>	2.71	
<i>For >100 To 200, Add</i>	1.55	
<i>For >200 To 400, Add</i>	0.73	
03 21 11 00-0134 LF #10, Grade 60, Slab On Grade, Steel Reinforcement Bar	5.54	
<i>For Up To 100, Add</i>	2.72	
<i>For >100 To 200, Add</i>	1.46	
<i>For >200 To 300, Add</i>	0.73	
03 21 11 00-0135 LF #11, Grade 60, Slab On Grade, Steel Reinforcement Bar	6.63	
<i>For Up To 100, Add</i>	3.30	
<i>For >100 To 200, Add</i>	1.76	
<i>For >200 To 300, Add</i>	0.88	
03 21 11 00-0136 LF #14, Grade 60, Slab On Grade, Steel Reinforcement Bar	9.20	
<i>For Up To 100, Add</i>	4.65	
<i>For >100 To 200, Add</i>	2.47	
<i>For >200 To 300, Add</i>	1.23	
03 21 11 00-0137 LF #18, Grade 60, Slab On Grade, Steel Reinforcement Bar	15.80	
<i>For Up To 100, Add</i>	8.10	
<i>For >100 To 200, Add</i>	4.28	
<i>For >200 To 300, Add</i>	2.14	
03 21 11 00-0138 LF #6, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.33	
<i>For Up To 100, Add</i>	1.72	
<i>For >100 To 200, Add</i>	0.91	
<i>For >200 To 500, Add</i>	0.37	
03 21 11 00-0139 LF #7, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.05	
<i>For Up To 100, Add</i>	1.78	
<i>For >100 To 200, Add</i>	1.03	
<i>For >200 To 400, Add</i>	0.48	
03 21 11 00-0140 LF #8, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.82	
<i>For Up To 100, Add</i>	2.27	
<i>For >100 To 200, Add</i>	1.31	
<i>For >200 To 400, Add</i>	0.62	
03 21 11 00-0141 LF #9, Grade 75, Slab On Grade, Steel Reinforcement Bar	4.71	
<i>For Up To 100, Add</i>	2.84	
<i>For >100 To 200, Add</i>	1.62	
<i>For >200 To 400, Add</i>	0.77	
03 21 11 00-0142 LF #10, Grade 75, Slab On Grade, Steel Reinforcement Bar	5.78	
<i>For Up To 100, Add</i>	2.87	
<i>For >100 To 200, Add</i>	1.53	
<i>For >200 To 300, Add</i>	0.77	
03 21 11 00-0143 LF #11, Grade 75, Slab On Grade, Steel Reinforcement Bar	6.92	
<i>For Up To 100, Add</i>	3.47	
<i>For >100 To 200, Add</i>	1.85	
<i>For >200 To 300, Add</i>	0.93	
03 21 11 00-0144 LF #14, Grade 75, Slab On Grade, Steel Reinforcement Bar	9.62	
<i>For Up To 100, Add</i>	4.90	
<i>For >100 To 200, Add</i>	2.60	
<i>For >200 To 300, Add</i>	1.30	
03 21 11 00-0145 LF #18, Grade 75, Slab On Grade, Steel Reinforcement Bar	16.54	
<i>For Up To 100, Add</i>	8.54	
<i>For >100 To 200, Add</i>	4.50	
<i>For >200 To 300, Add</i>	2.25	

03	Concrete
03 20	Concrete Reinforcing
03 21	Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	0.65	
		<i>For Up To 100, Add</i>		0.45	
		<i>For >100 To 200, Add</i>		0.24	
		<i>For >200 To 500, Add</i>		0.10	
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	1.12	
		<i>For Up To 100, Add</i>		0.80	
		<i>For >100 To 200, Add</i>		0.43	
		<i>For >200 To 500, Add</i>		0.17	
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	1.67	
		<i>For Up To 100, Add</i>		1.21	
		<i>For >100 To 200, Add</i>		0.64	
		<i>For >200 To 500, Add</i>		0.26	
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	2.31	
		<i>For Up To 100, Add</i>		1.70	
		<i>For >100 To 200, Add</i>		0.90	
		<i>For >200 To 500, Add</i>		0.36	
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	3.03	
		<i>For Up To 100, Add</i>		1.77	
		<i>For >100 To 200, Add</i>		1.02	
		<i>For >200 To 400, Add</i>		0.48	
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	3.79	
		<i>For Up To 100, Add</i>		2.25	
		<i>For >100 To 200, Add</i>		1.29	
		<i>For >200 To 400, Add</i>		0.61	
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	4.67	
		<i>For Up To 100, Add</i>		2.81	
		<i>For >100 To 200, Add</i>		1.61	
		<i>For >200 To 400, Add</i>		0.76	
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	5.72	
		<i>For Up To 100, Add</i>		2.83	
		<i>For >100 To 200, Add</i>		1.52	
		<i>For >200 To 300, Add</i>		0.76	
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	6.85	
		<i>For Up To 100, Add</i>		3.43	
		<i>For >100 To 200, Add</i>		1.83	
		<i>For >200 To 300, Add</i>		0.91	
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	9.52	
		<i>For Up To 100, Add</i>		4.84	
		<i>For >100 To 200, Add</i>		2.57	
		<i>For >200 To 300, Add</i>		1.28	
03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	16.36	
		<i>For Up To 100, Add</i>		8.43	
		<i>For >100 To 200, Add</i>		4.45	
		<i>For >200 To 300, Add</i>		2.22	
03 21 11 00-0157		Elevated Slabs, Steel Reinforcement Bar <small>(03 21 11)</small>			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	0.55	
		<i>For Up To 100, Add</i>		0.38	
		<i>For >100 To 200, Add</i>		0.21	
		<i>For >200 To 500, Add</i>		0.08	
03 21 11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	0.95	
		<i>For Up To 100, Add</i>		0.67	
		<i>For >100 To 200, Add</i>		0.36	
		<i>For >200 To 500, Add</i>		0.14	
03 21 11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	1.43	
		<i>For Up To 100, Add</i>		1.03	
		<i>For >100 To 200, Add</i>		0.55	
		<i>For >200 To 500, Add</i>		0.22	
03 21 11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	1.99	
		<i>For Up To 100, Add</i>		1.46	
		<i>For >100 To 200, Add</i>		0.77	
		<i>For >200 To 500, Add</i>		0.31	
03 21 11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	0.57	
		<i>For Up To 100, Add</i>		0.40	
		<i>For >100 To 200, Add</i>		0.22	
		<i>For >200 To 500, Add</i>		0.09	
03 21 11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	0.97	
		<i>For Up To 100, Add</i>		0.69	
		<i>For >100 To 200, Add</i>		0.37	
		<i>For >200 To 500, Add</i>		0.15	
03 21 11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	1.47	
		<i>For Up To 100, Add</i>		1.07	
		<i>For >100 To 200, Add</i>		0.57	
		<i>For >200 To 500, Add</i>		0.23	
03 21 11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	2.04	
		<i>For Up To 100, Add</i>		1.51	
		<i>For >100 To 200, Add</i>		0.80	
		<i>For >200 To 500, Add</i>		0.32	
03 21 11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar	.....	0.59	
		<i>For Up To 100, Add</i>		0.42	
		<i>For >100 To 200, Add</i>		0.23	
		<i>For >200 To 500, Add</i>		0.09	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0167 LF #4, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.01	
<i>For Up To 100, Add</i>	0.73	
<i>For >100 To 200, Add</i>	0.39	
<i>For >200 To 500, Add</i>	0.16	
03 21 11 00-0168 LF #5, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.53	
<i>For Up To 100, Add</i>	1.13	
<i>For >100 To 200, Add</i>	0.60	
<i>For >200 To 500, Add</i>	0.24	
03 21 11 00-0169 LF #6, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.13	
<i>For Up To 100, Add</i>	1.60	
<i>For >100 To 200, Add</i>	0.84	
<i>For >200 To 500, Add</i>	0.34	
03 21 11 00-0170 LF #7, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.79	
<i>For Up To 100, Add</i>	1.65	
<i>For >100 To 200, Add</i>	0.95	
<i>For >200 To 400, Add</i>	0.45	
03 21 11 00-0171 LF #8, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.49	
<i>For Up To 100, Add</i>	2.10	
<i>For >100 To 200, Add</i>	1.20	
<i>For >200 To 400, Add</i>	0.57	
03 21 11 00-0172 LF #9, Grade 60, Elevated Slabs, Steel Reinforcement Bar	4.32	
<i>For Up To 100, Add</i>	2.63	
<i>For >100 To 200, Add</i>	1.50	
<i>For >200 To 400, Add</i>	0.71	
03 21 11 00-0173 LF #10, Grade 60, Elevated Slabs, Steel Reinforcement Bar	5.30	
<i>For Up To 100, Add</i>	2.65	
<i>For >100 To 200, Add</i>	1.41	
<i>For >200 To 300, Add</i>	0.71	
03 21 11 00-0174 LF #11, Grade 60, Elevated Slabs, Steel Reinforcement Bar	6.34	
<i>For Up To 100, Add</i>	3.21	
<i>For >100 To 200, Add</i>	1.71	
<i>For >200 To 300, Add</i>	0.85	
03 21 11 00-0175 LF #14, Grade 60, Elevated Slabs, Steel Reinforcement Bar	8.84	
<i>For Up To 100, Add</i>	4.54	
<i>For >100 To 200, Add</i>	2.40	
<i>For >200 To 300, Add</i>	1.20	
03 21 11 00-0176 LF #18, Grade 60, Elevated Slabs, Steel Reinforcement Bar	15.23	
<i>For Up To 100, Add</i>	7.93	
<i>For >100 To 200, Add</i>	4.17	
<i>For >200 To 300, Add</i>	2.08	
03 21 11 00-0177 LF #6, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.21	
<i>For Up To 100, Add</i>	1.68	
<i>For >100 To 200, Add</i>	0.88	
<i>For >200 To 500, Add</i>	0.35	
03 21 11 00-0178 LF #7, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.90	
<i>For Up To 100, Add</i>	1.73	
<i>For >100 To 200, Add</i>	0.99	
<i>For >200 To 400, Add</i>	0.47	
03 21 11 00-0179 LF #8, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.63	
<i>For Up To 100, Add</i>	2.21	
<i>For >100 To 200, Add</i>	1.26	
<i>For >200 To 400, Add</i>	0.60	
03 21 11 00-0180 LF #9, Grade 75, Elevated Slabs, Steel Reinforcement Bar	4.50	
<i>For Up To 100, Add</i>	2.77	
<i>For >100 To 200, Add</i>	1.57	
<i>For >200 To 400, Add</i>	0.75	
03 21 11 00-0181 LF #10, Grade 75, Elevated Slabs, Steel Reinforcement Bar	5.54	
<i>For Up To 100, Add</i>	2.80	
<i>For >100 To 200, Add</i>	1.49	
<i>For >200 To 300, Add</i>	0.74	
03 21 11 00-0182 LF #11, Grade 75, Elevated Slabs, Steel Reinforcement Bar	6.63	
<i>For Up To 100, Add</i>	3.39	
<i>For >100 To 200, Add</i>	1.79	
<i>For >200 To 300, Add</i>	0.90	
03 21 11 00-0183 LF #14, Grade 75, Elevated Slabs, Steel Reinforcement Bar	9.26	
<i>For Up To 100, Add</i>	4.79	
<i>For >100 To 200, Add</i>	2.52	
<i>For >200 To 300, Add</i>	1.26	
03 21 11 00-0184 LF #18, Grade 75, Elevated Slabs, Steel Reinforcement Bar	15.97	
<i>For Up To 100, Add</i>	8.37	
<i>For >100 To 200, Add</i>	4.39	
<i>For >200 To 300, Add</i>	2.19	
03 21 11 00-0185 LF #3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.60	
<i>For Up To 100, Add</i>	0.43	
<i>For >100 To 200, Add</i>	0.23	
<i>For >200 To 500, Add</i>	0.09	
03 21 11 00-0186 LF #4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.04	
<i>For Up To 100, Add</i>	0.76	
<i>For >100 To 200, Add</i>	0.41	
<i>For >200 To 500, Add</i>	0.16	
03 21 11 00-0187 LF #5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.57	
<i>For Up To 100, Add</i>	1.17	
<i>For >100 To 200, Add</i>	0.62	
<i>For >200 To 500, Add</i>	0.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	2.19	
		<i>For Up To 100, Add</i>		1.66	
		<i>For >100 To 200, Add</i>		0.87	
		<i>For >200 To 500, Add</i>		0.35	
03 21 11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	2.88	
		<i>For Up To 100, Add</i>		1.72	
		<i>For >100 To 200, Add</i>		0.99	
		<i>For >200 To 400, Add</i>		0.47	
03 21 11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	3.60	
		<i>For Up To 100, Add</i>		2.18	
		<i>For >100 To 200, Add</i>		1.25	
		<i>For >200 To 400, Add</i>		0.59	
03 21 11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	4.46	
		<i>For Up To 100, Add</i>		2.74	
		<i>For >100 To 200, Add</i>		1.56	
		<i>For >200 To 400, Add</i>		0.74	
03 21 11 00-0192	LF	#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	5.48	
		<i>For Up To 100, Add</i>		2.76	
		<i>For >100 To 200, Add</i>		1.47	
		<i>For >200 To 300, Add</i>		0.73	
03 21 11 00-0193	LF	#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	6.56	
		<i>For Up To 100, Add</i>		3.35	
		<i>For >100 To 200, Add</i>		1.77	
		<i>For >200 To 300, Add</i>		0.89	
03 21 11 00-0194	LF	#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	9.16	
		<i>For Up To 100, Add</i>		4.73	
		<i>For >100 To 200, Add</i>		2.49	
		<i>For >200 To 300, Add</i>		1.25	
03 21 11 00-0195	LF	#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	15.79	
		<i>For Up To 100, Add</i>		8.26	
		<i>For >100 To 200, Add</i>		4.33	
		<i>For >200 To 300, Add</i>		2.17	
03 21 11 00-0196		Walls, Steel Reinforcement Bar <small>(03 21 11)</small>			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0197	LF	#3, Grade 40, Walls, Steel Reinforcement Bar	.....	0.53	
		<i>For Up To 100, Add</i>		0.37	
		<i>For >100 To 200, Add</i>		0.20	
		<i>For >200 To 500, Add</i>		0.08	
03 21 11 00-0198	LF	#4, Grade 40, Walls, Steel Reinforcement Bar	.....	0.92	
		<i>For Up To 100, Add</i>		0.66	
		<i>For >100 To 200, Add</i>		0.35	
		<i>For >200 To 500, Add</i>		0.14	
03 21 11 00-0199	LF	#5, Grade 40, Walls, Steel Reinforcement Bar	.....	1.38	
		<i>For Up To 100, Add</i>		1.01	
		<i>For >100 To 200, Add</i>		0.54	
		<i>For >200 To 500, Add</i>		0.21	
03 21 11 00-0200	LF	#6, Grade 40, Walls, Steel Reinforcement Bar	.....	1.92	
		<i>For Up To 100, Add</i>		1.43	
		<i>For >100 To 200, Add</i>		0.76	
		<i>For >200 To 500, Add</i>		0.30	
03 21 11 00-0201	LF	#3, Grade 50, Walls, Steel Reinforcement Bar	.....	0.55	
		<i>For Up To 100, Add</i>		0.39	
		<i>For >100 To 200, Add</i>		0.21	
		<i>For >200 To 500, Add</i>		0.08	
03 21 11 00-0202	LF	#4, Grade 50, Walls, Steel Reinforcement Bar	.....	0.94	
		<i>For Up To 100, Add</i>		0.68	
		<i>For >100 To 200, Add</i>		0.36	
		<i>For >200 To 500, Add</i>		0.15	
03 21 11 00-0203	LF	#5, Grade 50, Walls, Steel Reinforcement Bar	.....	1.42	
		<i>For Up To 100, Add</i>		1.05	
		<i>For >100 To 200, Add</i>		0.56	
		<i>For >200 To 500, Add</i>		0.22	
03 21 11 00-0204	LF	#6, Grade 50, Walls, Steel Reinforcement Bar	.....	1.97	
		<i>For Up To 100, Add</i>		1.48	
		<i>For >100 To 200, Add</i>		0.78	
		<i>For >200 To 500, Add</i>		0.31	
03 21 11 00-0205	LF	#3, Grade 60, Walls, Steel Reinforcement Bar	.....	0.57	
		<i>For Up To 100, Add</i>		0.41	
		<i>For >100 To 200, Add</i>		0.22	
		<i>For >200 To 500, Add</i>		0.09	
03 21 11 00-0206	LF	#4, Grade 60, Walls, Steel Reinforcement Bar	.....	0.98	
		<i>For Up To 100, Add</i>		0.72	
		<i>For >100 To 200, Add</i>		0.38	
		<i>For >200 To 500, Add</i>		0.15	
03 21 11 00-0207	LF	#5, Grade 60, Walls, Steel Reinforcement Bar	.....	1.48	
		<i>For Up To 100, Add</i>		1.11	
		<i>For >100 To 200, Add</i>		0.59	
		<i>For >200 To 500, Add</i>		0.23	
03 21 11 00-0208	LF	#6, Grade 60, Walls, Steel Reinforcement Bar	.....	2.06	
		<i>For Up To 100, Add</i>		1.57	
		<i>For >100 To 200, Add</i>		0.83	
		<i>For >200 To 500, Add</i>		0.33	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0209 LF #7, Grade 60, Walls, Steel Reinforcement Bar	2.69	
<i>For Up To 100, Add</i>	1.61	
<i>For >100 To 200, Add</i>	0.92	
<i>For >200 To 400, Add</i>	0.44	
03 21 11 00-0210 LF #8, Grade 60, Walls, Steel Reinforcement Bar	3.40	
<i>For Up To 100, Add</i>	2.07	
<i>For >100 To 200, Add</i>	1.18	
<i>For >200 To 400, Add</i>	0.56	
03 21 11 00-0211 LF #9, Grade 60, Walls, Steel Reinforcement Bar	4.21	
<i>For Up To 100, Add</i>	2.59	
<i>For >100 To 200, Add</i>	1.47	
<i>For >200 To 400, Add</i>	0.70	
03 21 11 00-0212 LF #10, Grade 60, Walls, Steel Reinforcement Bar	5.17	
<i>For Up To 100, Add</i>	2.61	
<i>For >100 To 200, Add</i>	1.39	
<i>For >200 To 300, Add</i>	0.69	
03 21 11 00-0213 LF #11, Grade 60, Walls, Steel Reinforcement Bar	6.20	
<i>For Up To 100, Add</i>	3.17	
<i>For >100 To 200, Add</i>	1.68	
<i>For >200 To 300, Add</i>	0.84	
03 21 11 00-0214 LF #14, Grade 60, Walls, Steel Reinforcement Bar	8.66	
<i>For Up To 100, Add</i>	4.49	
<i>For >100 To 200, Add</i>	2.36	
<i>For >200 To 300, Add</i>	1.18	
03 21 11 00-0215 LF #18, Grade 60, Walls, Steel Reinforcement Bar	14.94	
<i>For Up To 100, Add</i>	7.84	
<i>For >100 To 200, Add</i>	4.11	
<i>For >200 To 300, Add</i>	2.05	
03 21 11 00-0216 LF #6, Grade 75, Walls, Steel Reinforcement Bar	2.14	
<i>For Up To 100, Add</i>	1.65	
<i>For >100 To 200, Add</i>	0.87	
<i>For >200 To 500, Add</i>	0.35	
03 21 11 00-0217 LF #7, Grade 75, Walls, Steel Reinforcement Bar	2.80	
<i>For Up To 100, Add</i>	1.70	
<i>For >100 To 200, Add</i>	0.97	
<i>For >200 To 400, Add</i>	0.46	
03 21 11 00-0218 LF #8, Grade 75, Walls, Steel Reinforcement Bar	3.54	
<i>For Up To 100, Add</i>	2.18	
<i>For >100 To 200, Add</i>	1.24	
<i>For >200 To 400, Add</i>	0.59	
03 21 11 00-0219 LF #9, Grade 75, Walls, Steel Reinforcement Bar	4.39	
<i>For Up To 100, Add</i>	2.73	
<i>For >100 To 200, Add</i>	1.54	
<i>For >200 To 400, Add</i>	0.74	
03 21 11 00-0220 LF #10, Grade 75, Walls, Steel Reinforcement Bar	5.41	
<i>For Up To 100, Add</i>	2.76	
<i>For >100 To 200, Add</i>	1.46	
<i>For >200 To 300, Add</i>	0.73	
03 21 11 00-0221 LF #11, Grade 75, Walls, Steel Reinforcement Bar	6.49	
<i>For Up To 100, Add</i>	3.35	
<i>For >100 To 200, Add</i>	1.76	
<i>For >200 To 300, Add</i>	0.88	
03 21 11 00-0222 LF #14, Grade 75, Walls, Steel Reinforcement Bar	9.08	
<i>For Up To 100, Add</i>	4.74	
<i>For >100 To 200, Add</i>	2.49	
<i>For >200 To 300, Add</i>	1.24	
03 21 11 00-0223 LF #18, Grade 75, Walls, Steel Reinforcement Bar	15.68	
<i>For Up To 100, Add</i>	8.28	
<i>For >100 To 200, Add</i>	4.33	
<i>For >200 To 300, Add</i>	2.16	
03 21 11 00-0224 LF #3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.58	
<i>For Up To 100, Add</i>	0.42	
<i>For >100 To 200, Add</i>	0.23	
<i>For >200 To 500, Add</i>	0.09	
03 21 11 00-0225 LF #4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.01	
<i>For Up To 100, Add</i>	0.75	
<i>For >100 To 200, Add</i>	0.40	
<i>For >200 To 500, Add</i>	0.16	
03 21 11 00-0226 LF #5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.52	
<i>For Up To 100, Add</i>	1.15	
<i>For >100 To 200, Add</i>	0.61	
<i>For >200 To 500, Add</i>	0.24	
03 21 11 00-0227 LF #6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	2.12	
<i>For Up To 100, Add</i>	1.63	
<i>For >100 To 200, Add</i>	0.86	
<i>For >200 To 500, Add</i>	0.34	
03 21 11 00-0228 LF #7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	2.78	
<i>For Up To 100, Add</i>	1.68	
<i>For >100 To 200, Add</i>	0.96	
<i>For >200 To 400, Add</i>	0.46	
03 21 11 00-0229 LF #8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	3.51	
<i>For Up To 100, Add</i>	2.15	
<i>For >100 To 200, Add</i>	1.22	
<i>For >200 To 400, Add</i>	0.58	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0230	LF		#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	4.35	
			<i>For Up To 100, Add</i>	2.70	
			<i>For >100 To 200, Add</i>	1.53	
			<i>For >200 To 400, Add</i>	0.73	
03 21 11 00-0231	LF		#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	5.35	
			<i>For Up To 100, Add</i>	2.72	
			<i>For >100 To 200, Add</i>	1.44	
			<i>For >200 To 300, Add</i>	0.72	
03 21 11 00-0232	LF		#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	6.42	
			<i>For Up To 100, Add</i>	3.30	
			<i>For >100 To 200, Add</i>	1.74	
			<i>For >200 To 300, Add</i>	0.87	
03 21 11 00-0233	LF		#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	8.98	
			<i>For Up To 100, Add</i>	4.68	
			<i>For >100 To 200, Add</i>	2.46	
			<i>For >200 To 300, Add</i>	1.23	
03 21 11 00-0234	LF		#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	15.50	
			<i>For Up To 100, Add</i>	8.18	
			<i>For >100 To 200, Add</i>	4.28	
			<i>For >200 To 300, Add</i>	2.14	
03 21 11 00-0235			Mechanical Joint Connection (03 21 11)		
03 21 11 00-0236			Thermal Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0237	EA		Thermal Type Mechanical Joint Connection, Add Per Splice	226.71	
03 21 11 00-0238			Screwed Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0239	EA		Screwed Type Mechanical Joint Connection, Add Per Splice	124.15	
03 21 11 00-0240			Deformed Straight Dowels (03 21 11)		
			Note: Excludes drilling.		
03 21 11 00-0241	EA		3/8" Diameter x 24" Long, Deformed Straight Dowel	2.98	
			<i>For Up To 12" Length, Deduct</i>	-0.34	
			<i>For >12" To <24" Length, Deduct</i>	-0.17	
03 21 11 00-0242	EA		1/2" Diameter x 24" Long, Deformed Straight Dowel	3.57	
			<i>For Up To 12" Length, Deduct</i>	-0.46	
			<i>For >12" To <24" Length, Deduct</i>	-0.23	
03 21 11 00-0243	EA		5/8" Diameter x 24" Long, Deformed Straight Dowel	4.35	
			<i>For Up To 12" Length, Deduct</i>	-0.72	
			<i>For >12" To <24" Length, Deduct</i>	-0.36	
03 21 11 00-0244	EA		3/4" Diameter x 24" Long, Deformed Straight Dowel	5.28	
			<i>For Up To 12" Length, Deduct</i>	-1.03	
			<i>For >12" To <24" Length, Deduct</i>	-0.52	
03 21 11 00-0245	EA		7/8" Diameter x 24" Long, Deformed Straight Dowel	6.22	
			<i>For Up To 12" Length, Deduct</i>	-1.44	
			<i>For >12" To <24" Length, Deduct</i>	-0.72	
03 21 11 00-0246	EA		1" Diameter x 24" Long, Deformed Straight Dowel	7.84	
			<i>For Up To 12" Length, Deduct</i>	-1.84	
			<i>For >12" To <24" Length, Deduct</i>	-0.92	
03 21 11 00-0247	EA		1-1/8" Diameter x 24" Long, Deformed Straight Dowel	9.24	
			<i>For Up To 12" Length, Deduct</i>	-2.28	
			<i>For >12" To <24" Length, Deduct</i>	-1.14	
03 21 11 00-0248	EA		1-1/4" Diameter x 24" Long, Deformed Straight Dowel	11.31	
			<i>For Up To 12" Length, Deduct</i>	-2.97	
			<i>For >12" To <24" Length, Deduct</i>	-1.49	
03 21 11 00-0249	EA		1-3/8" Diameter x 24" Long, Deformed Straight Dowel	13.42	
			<i>For Up To 12" Length, Deduct</i>	-3.67	
			<i>For >12" To <24" Length, Deduct</i>	-1.84	
03 21 11 00-0250			Spirals, Reinforcing Steel (03 21 11)		
03 21 11 00-0251	TON		Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel	3,474.38	
			<i>For Grade 75, Add</i>	130.37	
03 21 11 00-0252	TON		>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel	3,432.71	
			<i>For Grade 75, Add</i>	130.37	
03 21 11 00-0253	TON		>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel	3,400.94	
			<i>For Grade 75, Add</i>	130.37	
03 21 11 00-0254	TON		>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel	3,348.95	
			<i>For Grade 75, Add</i>	130.37	
03 21 11 00-0255	TON		>48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel	3,278.67	
			<i>For Grade 75, Add</i>	130.37	
03 21 11 00-0256	TON		>64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel	3,251.90	
			<i>For Grade 75, Add</i>	133.58	
03 21 11 00-0257	TON		>84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel	3,193.06	
			<i>For Grade 75, Add</i>	133.58	
03 21 11 00-0258			Dowel Or Hairpin, Drilled And Epoxy Into Concrete (03 21 11)		
03 21 11 00-0259	EA		Dowels Or Hairpin, 1/2" x 30" Length, Drilled And Epoxy In Concrete, 6" Embedment	28.97	
03 21 11 00-0260	EA		Dowels Or Hairpin, 1/2" x 36" Length, Drilled And Epoxy In Concrete, >6" To 12" Embedment	30.27	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 21 11 00-0261	Accessories For Reinforcing Steel <small>(03 21 11)</small>	
03 21 11 00-0262	Reinforcing Steel Lap-Weld Splice <small>(03 21 11 00-0261)</small>	
03 21 11 00-0263 EA	Up To #6 Reinforcing Steel Lap-Weld Splice.....	60.41
03 21 11 00-0264 EA	>#6 Reinforcing Steel Lap-Weld Splice.....	95.95

03 21 11 00-0265	Reinforcing Steel Sleeve And Wedge Splice Joint <small>(03 21 11 00-0261)</small>	
03 21 11 00-0266 EA	Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	32.91
03 21 11 00-0267 EA	#5 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	49.64
03 21 11 00-0268 EA	#6 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	73.40

03 21 13 Galvanized Reinforcement Steel Bars (03 21)

03 21 13 00-0001	Beams And Girders, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>	
	Note: ASTM A-767 Hot Dipped Galvanized Steel.	
03 21 13 00-0002 LF	#3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar.....	0.83
	For Up To 100, Add	0.58
	For >100 To 200, Add	0.31
	For >200 To 500, Add	0.13
03 21 13 00-0003 LF	#4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar.....	1.40
	For Up To 100, Add	1.00
	For >100 To 200, Add	0.54
	For >200 To 500, Add	0.21
03 21 13 00-0004 LF	#5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.11
	For Up To 100, Add	1.53
	For >100 To 200, Add	0.82
	For >200 To 500, Add	0.33
03 21 13 00-0005 LF	#6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.93
	For Up To 100, Add	2.17
	For >100 To 200, Add	1.15
	For >200 To 500, Add	0.46
03 21 13 00-0006 LF	#3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar.....	0.84
	For Up To 100, Add	0.59
	For >100 To 200, Add	0.32
	For >200 To 500, Add	0.13
03 21 13 00-0007 LF	#4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar.....	1.42
	For Up To 100, Add	1.02
	For >100 To 200, Add	0.55
	For >200 To 500, Add	0.22
03 21 13 00-0008 LF	#5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.15
	For Up To 100, Add	1.57
	For >100 To 200, Add	0.84
	For >200 To 500, Add	0.33
03 21 13 00-0009 LF	#6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.98
	For Up To 100, Add	2.22
	For >100 To 200, Add	1.17
	For >200 To 500, Add	0.47
03 21 13 00-0010 LF	#3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	0.86
	For Up To 100, Add	0.61
	For >100 To 200, Add	0.33
	For >200 To 500, Add	0.13
03 21 13 00-0011 LF	#4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	1.46
	For Up To 100, Add	1.06
	For >100 To 200, Add	0.57
	For >200 To 500, Add	0.23
03 21 13 00-0012 LF	#5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.21
	For Up To 100, Add	1.63
	For >100 To 200, Add	0.87
	For >200 To 500, Add	0.35
03 21 13 00-0013 LF	#6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	3.07
	For Up To 100, Add	2.31
	For >100 To 200, Add	1.22
	For >200 To 500, Add	0.49
03 21 13 00-0014 LF	#7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	4.02
	For Up To 100, Add	2.39
	For >100 To 200, Add	1.37
	For >200 To 400, Add	0.65
03 21 13 00-0015 LF	#8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	5.04
	For Up To 100, Add	3.04
	For >100 To 200, Add	1.74
	For >200 To 400, Add	0.82
03 21 13 00-0016 LF	#9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	6.23
	For Up To 100, Add	3.81
	For >100 To 200, Add	2.17
	For >200 To 400, Add	1.03
03 21 13 00-0017 LF	#10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	7.66
	For Up To 100, Add	3.84
	For >100 To 200, Add	2.05
	For >200 To 300, Add	1.02



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0018	LF	#11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	9.17	
			For Up To 100, Add	4.66	
			For >100 To 200, Add	2.47	
			For >200 To 300, Add	1.24	
03 21	13 00-0019	LF	#14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	12.81	
			For Up To 100, Add	6.59	
			For >100 To 200, Add	3.48	
			For >200 To 300, Add	1.74	
03 21	13 00-0020	LF	#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	22.04	
			For Up To 100, Add	11.50	
			For >100 To 200, Add	6.04	
			For >200 To 300, Add	3.02	
03 21	13 00-0021	LF	#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.15	
			For Up To 100, Add	2.39	
			For >100 To 200, Add	1.26	
			For >200 To 500, Add	0.50	
03 21	13 00-0022	LF	#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	4.13	
			For Up To 100, Add	2.47	
			For >100 To 200, Add	1.42	
			For >200 To 400, Add	0.67	
03 21	13 00-0023	LF	#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	5.18	
			For Up To 100, Add	3.15	
			For >100 To 200, Add	1.80	
			For >200 To 400, Add	0.85	
03 21	13 00-0024	LF	#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	6.41	
			For Up To 100, Add	3.94	
			For >100 To 200, Add	2.24	
			For >200 To 400, Add	1.07	
03 21	13 00-0025	LF	#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	7.89	
			For Up To 100, Add	3.98	
			For >100 To 200, Add	2.12	
			For >200 To 300, Add	1.06	
03 21	13 00-0026	LF	#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	9.46	
			For Up To 100, Add	4.83	
			For >100 To 200, Add	2.56	
			For >200 To 300, Add	1.28	
03 21	13 00-0027	LF	#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	13.22	
			For Up To 100, Add	6.84	
			For >100 To 200, Add	3.60	
			For >200 To 300, Add	1.80	
03 21	13 00-0028	LF	#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	22.78	
			For Up To 100, Add	11.94	
			For >100 To 200, Add	6.26	
			For >200 To 300, Add	3.13	
03 21	13 00-0029		Columns, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
			Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21	13 00-0030	LF	#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	0.86	
			For Up To 100, Add	0.60	
			For >100 To 200, Add	0.32	
			For >200 To 500, Add	0.13	
03 21	13 00-0031	LF	#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.48	
			For Up To 100, Add	1.04	
			For >100 To 200, Add	0.56	
			For >200 To 500, Add	0.22	
03 21	13 00-0032	LF	#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.20	
			For Up To 100, Add	1.57	
			For >100 To 200, Add	0.84	
			For >200 To 500, Add	0.34	
03 21	13 00-0033	LF	#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	3.06	
			For Up To 100, Add	2.22	
			For >100 To 200, Add	1.18	
			For >200 To 500, Add	0.47	
03 21	13 00-0034	LF	#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	0.87	
			For Up To 100, Add	0.61	
			For >100 To 200, Add	0.33	
			For >200 To 500, Add	0.13	
03 21	13 00-0035	LF	#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.50	
			For Up To 100, Add	1.06	
			For >100 To 200, Add	0.57	
			For >200 To 500, Add	0.23	
03 21	13 00-0036	LF	#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.24	
			For Up To 100, Add	1.61	
			For >100 To 200, Add	0.86	
			For >200 To 500, Add	0.34	
03 21	13 00-0037	LF	#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	3.11	
			For Up To 100, Add	2.27	
			For >100 To 200, Add	1.21	
			For >200 To 500, Add	0.48	
03 21	13 00-0038	LF	#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	0.89	
			For Up To 100, Add	0.63	
			For >100 To 200, Add	0.34	
			For >200 To 500, Add	0.13	



Concrete	03	CS
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0039 LF #4, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	1.54	
For Up To 100, Add	1.10	
For >100 To 200, Add	0.59	
For >200 To 500, Add	0.23	
03 21 13 00-0040 LF #5, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	2.30	
For Up To 100, Add	1.67	
For >100 To 200, Add	0.89	
For >200 To 500, Add	0.36	
03 21 13 00-0041 LF #6, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	3.20	
For Up To 100, Add	2.36	
For >100 To 200, Add	1.25	
For >200 To 500, Add	0.50	
03 21 13 00-0042 LF #7, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	4.18	
For Up To 100, Add	2.44	
For >100 To 200, Add	1.41	
For >200 To 400, Add	0.66	
03 21 13 00-0043 LF #8, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	5.22	
For Up To 100, Add	3.11	
For >100 To 200, Add	1.79	
For >200 To 400, Add	0.84	
03 21 13 00-0044 LF #9, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	6.44	
For Up To 100, Add	3.88	
For >100 To 200, Add	2.22	
For >200 To 400, Add	1.05	
03 21 13 00-0045 LF #10, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	7.90	
For Up To 100, Add	3.92	
For >100 To 200, Add	2.10	
For >200 To 300, Add	1.05	
03 21 13 00-0046 LF #11, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	9.45	
For Up To 100, Add	4.74	
For >100 To 200, Add	2.53	
For >200 To 300, Add	1.26	
03 21 13 00-0047 LF #14, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	13.17	
For Up To 100, Add	6.70	
For >100 To 200, Add	3.55	
For >200 To 300, Add	1.78	
03 21 13 00-0048 LF #18, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	22.61	
For Up To 100, Add	11.67	
For >100 To 200, Add	6.15	
For >200 To 300, Add	3.08	
03 21 13 00-0049 LF #6, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	3.28	
For Up To 100, Add	2.44	
For >100 To 200, Add	1.29	
For >200 To 500, Add	0.52	
03 21 13 00-0050 LF #7, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	4.29	
For Up To 100, Add	2.53	
For >100 To 200, Add	1.46	
For >200 To 400, Add	0.69	
03 21 13 00-0051 LF #8, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	5.36	
For Up To 100, Add	3.21	
For >100 To 200, Add	1.84	
For >200 To 400, Add	0.87	
03 21 13 00-0052 LF #9, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	6.62	
For Up To 100, Add	4.02	
For >100 To 200, Add	2.29	
For >200 To 400, Add	1.09	
03 21 13 00-0053 LF #10, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	8.13	
For Up To 100, Add	4.05	
For >100 To 200, Add	2.16	
For >200 To 300, Add	1.08	
03 21 13 00-0054 LF #11, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	9.74	
For Up To 100, Add	4.92	
For >100 To 200, Add	2.61	
For >200 To 300, Add	1.31	
03 21 13 00-0055 LF #14, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	13.58	
For Up To 100, Add	6.95	
For >100 To 200, Add	3.67	
For >200 To 300, Add	1.84	
03 21 13 00-0056 LF #18, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	23.35	
For Up To 100, Add	12.11	
For >100 To 200, Add	6.37	
For >200 To 300, Add	3.19	
03 21 13 00-0057 Footings, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0058 LF #3, Grade 40, Footings, Galvanized Steel Reinforcement Bar.....	0.77	
For Up To 100, Add	0.56	
For >100 To 200, Add	0.30	
For >200 To 500, Add	0.12	
03 21 13 00-0059 LF #4, Grade 40, Footings, Galvanized Steel Reinforcement Bar.....	1.31	
For Up To 100, Add	0.97	
For >100 To 200, Add	0.51	
For >200 To 500, Add	0.21	

03	Concrete
03 20	Concrete Reinforcing
03 21	Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0060	LF	#5, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.97	
			<i>For Up To 100, Add</i>	1.48	
			<i>For >100 To 200, Add</i>	0.78	
			<i>For >200 To 500, Add</i>	0.31	
03 21	13 00-0061	LF	#6, Grade 40, Footings, Galvanized Steel Reinforcement Bar	2.75	
			<i>For Up To 100, Add</i>	2.10	
			<i>For >100 To 200, Add</i>	1.10	
			<i>For >200 To 500, Add</i>	0.44	
03 21	13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	0.78	
			<i>For Up To 100, Add</i>	0.57	
			<i>For >100 To 200, Add</i>	0.30	
			<i>For >200 To 500, Add</i>	0.12	
03 21	13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.33	
			<i>For Up To 100, Add</i>	0.99	
			<i>For >100 To 200, Add</i>	0.52	
			<i>For >200 To 500, Add</i>	0.21	
03 21	13 00-0064	LF	#5, Grade 50, Footings, Galvanized Steel Reinforcement Bar	2.01	
			<i>For Up To 100, Add</i>	1.52	
			<i>For >100 To 200, Add</i>	0.80	
			<i>For >200 To 500, Add</i>	0.32	
03 21	13 00-0065	LF	#6, Grade 50, Footings, Galvanized Steel Reinforcement Bar	2.80	
			<i>For Up To 100, Add</i>	2.15	
			<i>For >100 To 200, Add</i>	1.13	
			<i>For >200 To 500, Add</i>	0.45	
03 21	13 00-0066	LF	#3, Grade 60, Footings, Galvanized Steel Reinforcement Bar	0.80	
			<i>For Up To 100, Add</i>	0.59	
			<i>For >100 To 200, Add</i>	0.31	
			<i>For >200 To 500, Add</i>	0.13	
03 21	13 00-0067	LF	#4, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.37	
			<i>For Up To 100, Add</i>	1.03	
			<i>For >100 To 200, Add</i>	0.54	
			<i>For >200 To 500, Add</i>	0.22	
03 21	13 00-0068	LF	#5, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.07	
			<i>For Up To 100, Add</i>	1.58	
			<i>For >100 To 200, Add</i>	0.83	
			<i>For >200 To 500, Add</i>	0.33	
03 21	13 00-0069	LF	#6, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.89	
			<i>For Up To 100, Add</i>	2.24	
			<i>For >100 To 200, Add</i>	1.17	
			<i>For >200 To 500, Add</i>	0.47	
03 21	13 00-0070	LF	#7, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.79	
			<i>For Up To 100, Add</i>	2.31	
			<i>For >100 To 200, Add</i>	1.32	
			<i>For >200 To 400, Add</i>	0.62	
03 21	13 00-0071	LF	#8, Grade 60, Footings, Galvanized Steel Reinforcement Bar	4.77	
			<i>For Up To 100, Add</i>	2.95	
			<i>For >100 To 200, Add</i>	1.67	
			<i>For >200 To 400, Add</i>	0.80	
03 21	13 00-0072	LF	#9, Grade 60, Footings, Galvanized Steel Reinforcement Bar	5.90	
			<i>For Up To 100, Add</i>	3.69	
			<i>For >100 To 200, Add</i>	2.09	
			<i>For >200 To 400, Add</i>	1.00	
03 21	13 00-0073	LF	#10, Grade 60, Footings, Galvanized Steel Reinforcement Bar	7.28	
			<i>For Up To 100, Add</i>	3.73	
			<i>For >100 To 200, Add</i>	1.97	
			<i>For >200 To 300, Add</i>	0.99	
03 21	13 00-0074	LF	#11, Grade 60, Footings, Galvanized Steel Reinforcement Bar	8.75	
			<i>For Up To 100, Add</i>	4.53	
			<i>For >100 To 200, Add</i>	2.39	
			<i>For >200 To 300, Add</i>	1.19	
03 21	13 00-0075	LF	#14, Grade 60, Footings, Galvanized Steel Reinforcement Bar	12.26	
			<i>For Up To 100, Add</i>	6.43	
			<i>For >100 To 200, Add</i>	3.37	
			<i>For >200 To 300, Add</i>	1.68	
03 21	13 00-0076	LF	#18, Grade 60, Footings, Galvanized Steel Reinforcement Bar	21.17	
			<i>For Up To 100, Add</i>	11.24	
			<i>For >100 To 200, Add</i>	5.86	
			<i>For >200 To 300, Add</i>	2.93	
03 21	13 00-0077	LF	#6, Grade 75, Footings, Galvanized Steel Reinforcement Bar	2.97	
			<i>For Up To 100, Add</i>	2.32	
			<i>For >100 To 200, Add</i>	1.21	
			<i>For >200 To 500, Add</i>	0.49	
03 21	13 00-0078	LF	#7, Grade 75, Footings, Galvanized Steel Reinforcement Bar	3.90	
			<i>For Up To 100, Add</i>	2.39	
			<i>For >100 To 200, Add</i>	1.36	
			<i>For >200 To 400, Add</i>	0.65	
03 21	13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar	4.91	
			<i>For Up To 100, Add</i>	3.05	
			<i>For >100 To 200, Add</i>	1.73	
			<i>For >200 To 400, Add</i>	0.83	
03 21	13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar	6.08	
			<i>For Up To 100, Add</i>	3.83	
			<i>For >100 To 200, Add</i>	2.16	
			<i>For >200 To 400, Add</i>	1.03	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0081 LF #10, Grade 75, Footings, Galvanized Steel Reinforcement Bar	7.51	
For Up To 100, Add	3.87	
For >100 To 200, Add	2.04	
For >200 To 300, Add	1.02	
03 21 13 00-0082 LF #11, Grade 75, Footings, Galvanized Steel Reinforcement Bar	9.04	
For Up To 100, Add	4.71	
For >100 To 200, Add	2.47	
For >200 To 300, Add	1.24	
03 21 13 00-0083 LF #14, Grade 75, Footings, Galvanized Steel Reinforcement Bar	12.67	
For Up To 100, Add	6.67	
For >100 To 200, Add	3.49	
For >200 To 300, Add	1.75	
03 21 13 00-0084 LF #18, Grade 75, Footings, Galvanized Steel Reinforcement Bar	21.91	
For Up To 100, Add	11.68	
For >100 To 200, Add	6.08	
For >200 To 300, Add	3.04	
03 21 13 00-0085 Slab On Grade, Galvanized Steel Reinforcement Bar (03 21 13)		
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0086 LF #3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	0.75	
For Up To 100, Add	0.55	
For >100 To 200, Add	0.29	
For >200 To 500, Add	0.12	
03 21 13 00-0087 LF #4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.28	
For Up To 100, Add	0.96	
For >100 To 200, Add	0.51	
For >200 To 500, Add	0.20	
03 21 13 00-0088 LF #5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.92	
For Up To 100, Add	1.46	
For >100 To 200, Add	0.77	
For >200 To 500, Add	0.31	
03 21 13 00-0089 LF #6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	2.67	
For Up To 100, Add	2.06	
For >100 To 200, Add	1.08	
For >200 To 500, Add	0.43	
03 21 13 00-0090 LF #3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	0.76	
For Up To 100, Add	0.56	
For >100 To 200, Add	0.30	
For >200 To 500, Add	0.12	
03 21 13 00-0091 LF #4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.30	
For Up To 100, Add	0.98	
For >100 To 200, Add	0.52	
For >200 To 500, Add	0.21	
03 21 13 00-0092 LF #5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.96	
For Up To 100, Add	1.50	
For >100 To 200, Add	0.79	
For >200 To 500, Add	0.32	
03 21 13 00-0093 LF #6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	2.72	
For Up To 100, Add	2.11	
For >100 To 200, Add	1.11	
For >200 To 500, Add	0.44	
03 21 13 00-0094 LF #3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	0.78	
For Up To 100, Add	0.58	
For >100 To 200, Add	0.31	
For >200 To 500, Add	0.12	
03 21 13 00-0095 LF #4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.34	
For Up To 100, Add	1.02	
For >100 To 200, Add	0.54	
For >200 To 500, Add	0.21	
03 21 13 00-0096 LF #5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.02	
For Up To 100, Add	1.56	
For >100 To 200, Add	0.82	
For >200 To 500, Add	0.33	
03 21 13 00-0097 LF #6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.81	
For Up To 100, Add	2.20	
For >100 To 200, Add	1.15	
For >200 To 500, Add	0.46	
03 21 13 00-0098 LF #7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	3.71	
For Up To 100, Add	2.28	
For >100 To 200, Add	1.30	
For >200 To 400, Add	0.62	
03 21 13 00-0099 LF #8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	4.68	
For Up To 100, Add	2.92	
For >100 To 200, Add	1.65	
For >200 To 400, Add	0.79	
03 21 13 00-0100 LF #9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	5.80	
For Up To 100, Add	3.66	
For >100 To 200, Add	2.06	
For >200 To 400, Add	0.99	
03 21 13 00-0101 LF #10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	7.15	
For Up To 100, Add	3.69	
For >100 To 200, Add	1.95	
For >200 To 300, Add	0.97	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	8.62	
			For Up To 100, Add	4.49	
			For >100 To 200, Add	2.36	
			For >200 To 300, Add	1.18	
03 21	13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	12.07	
			For Up To 100, Add	6.37	
			For >100 To 200, Add	3.33	
			For >200 To 300, Add	1.67	
03 21	13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	20.89	
			For Up To 100, Add	11.15	
			For >100 To 200, Add	5.81	
			For >200 To 300, Add	2.90	
03 21	13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	2.89	
			For Up To 100, Add	2.28	
			For >100 To 200, Add	1.19	
			For >200 To 500, Add	0.48	
03 21	13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.82	
			For Up To 100, Add	2.36	
			For >100 To 200, Add	1.34	
			For >200 To 400, Add	0.64	
03 21	13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	4.82	
			For Up To 100, Add	3.02	
			For >100 To 200, Add	1.71	
			For >200 To 400, Add	0.82	
03 21	13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	5.98	
			For Up To 100, Add	3.79	
			For >100 To 200, Add	2.13	
			For >200 To 400, Add	1.02	
03 21	13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	7.38	
			For Up To 100, Add	3.83	
			For >100 To 200, Add	2.01	
			For >200 To 300, Add	1.01	
03 21	13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	8.91	
			For Up To 100, Add	4.67	
			For >100 To 200, Add	2.45	
			For >200 To 300, Add	1.22	
03 21	13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	12.48	
			For Up To 100, Add	6.62	
			For >100 To 200, Add	3.45	
			For >200 To 300, Add	1.73	
03 21	13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	21.63	
			For Up To 100, Add	11.60	
			For >100 To 200, Add	6.03	
			For >200 To 300, Add	3.01	
03 21	13 00-0113		Elevated Slabs, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
			Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21	13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.70	
			For Up To 100, Add	0.53	
			For >100 To 200, Add	0.28	
			For >200 To 500, Add	0.11	
03 21	13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.20	
			For Up To 100, Add	0.92	
			For >100 To 200, Add	0.49	
			For >200 To 500, Add	0.19	
03 21	13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.82	
			For Up To 100, Add	1.42	
			For >100 To 200, Add	0.74	
			For >200 To 500, Add	0.30	
03 21	13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.55	
			For Up To 100, Add	2.02	
			For >100 To 200, Add	1.05	
			For >200 To 500, Add	0.42	
03 21	13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.71	
			For Up To 100, Add	0.54	
			For >100 To 200, Add	0.29	
			For >200 To 500, Add	0.11	
03 21	13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.22	
			For Up To 100, Add	0.94	
			For >100 To 200, Add	0.50	
			For >200 To 500, Add	0.20	
03 21	13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.86	
			For Up To 100, Add	1.46	
			For >100 To 200, Add	0.76	
			For >200 To 500, Add	0.31	
03 21	13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.60	
			For Up To 100, Add	2.07	
			For >100 To 200, Add	1.08	
			For >200 To 500, Add	0.43	
03 21	13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.73	
			For Up To 100, Add	0.56	
			For >100 To 200, Add	0.30	
			For >200 To 500, Add	0.12	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0123 LF #4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.26	
For Up To 100, Add	0.98	
For >100 To 200, Add	0.52	
For >200 To 500, Add	0.21	
03 21 13 00-0124 LF #5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.92	
For Up To 100, Add	1.52	
For >100 To 200, Add	0.79	
For >200 To 500, Add	0.32	
03 21 13 00-0125 LF #6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.69	
For Up To 100, Add	2.16	
For >100 To 200, Add	1.12	
For >200 To 500, Add	0.45	
03 21 13 00-0126 LF #7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.56	
For Up To 100, Add	2.23	
For >100 To 200, Add	1.26	
For >200 To 400, Add	0.60	
03 21 13 00-0127 LF #8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.49	
For Up To 100, Add	2.85	
For >100 To 200, Add	1.60	
For >200 To 400, Add	0.77	
03 21 13 00-0128 LF #9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.59	
For Up To 100, Add	3.58	
For >100 To 200, Add	2.01	
For >200 To 400, Add	0.97	
03 21 13 00-0129 LF #10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.91	
For Up To 100, Add	3.62	
For >100 To 200, Add	1.90	
For >200 To 300, Add	0.95	
03 21 13 00-0130 LF #11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.33	
For Up To 100, Add	4.41	
For >100 To 200, Add	2.30	
For >200 To 300, Add	1.15	
03 21 13 00-0131 LF #14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	11.71	
For Up To 100, Add	6.26	
For >100 To 200, Add	3.26	
For >200 To 300, Add	1.63	
03 21 13 00-0132 LF #18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	20.32	
For Up To 100, Add	10.98	
For >100 To 200, Add	5.69	
For >200 To 300, Add	2.85	
03 21 13 00-0133 LF #6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.77	
For Up To 100, Add	2.24	
For >100 To 200, Add	1.16	
For >200 To 500, Add	0.47	
03 21 13 00-0134 LF #7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.67	
For Up To 100, Add	2.31	
For >100 To 200, Add	1.30	
For >200 To 400, Add	0.62	
03 21 13 00-0135 LF #8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.63	
For Up To 100, Add	2.96	
For >100 To 200, Add	1.66	
For >200 To 400, Add	0.80	
03 21 13 00-0136 LF #9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.77	
For Up To 100, Add	3.72	
For >100 To 200, Add	2.08	
For >200 To 400, Add	1.00	
03 21 13 00-0137 LF #10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	7.14	
For Up To 100, Add	3.76	
For >100 To 200, Add	1.97	
For >200 To 300, Add	0.98	
03 21 13 00-0138 LF #11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.62	
For Up To 100, Add	4.58	
For >100 To 200, Add	2.39	
For >200 To 300, Add	1.19	
03 21 13 00-0139 LF #14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	12.12	
For Up To 100, Add	6.51	
For >100 To 200, Add	3.38	
For >200 To 300, Add	1.69	
03 21 13 00-0140 LF #18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	21.06	
For Up To 100, Add	11.42	
For >100 To 200, Add	5.91	
For >200 To 300, Add	2.96	
 03 21 13 00-0141 Walls, Galvanized Steel Reinforcement Bar ^(03 21 13)		
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0142 LF #3, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.68	
For Up To 100, Add	0.52	
For >100 To 200, Add	0.28	
For >200 To 500, Add	0.11	
03 21 13 00-0143 LF #4, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.17	
For Up To 100, Add	0.91	
For >100 To 200, Add	0.48	
For >200 To 500, Add	0.19	

03	Concrete
03 20	Concrete Reinforcing
03 21	Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.77	
			For Up To 100, Add	1.40	
			For >100 To 200, Add	0.73	
			For >200 To 500, Add	0.29	
03 21	13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar	2.48	
			For Up To 100, Add	1.99	
			For >100 To 200, Add	1.04	
			For >200 To 500, Add	0.41	
03 21	13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.69	
			For Up To 100, Add	0.53	
			For >100 To 200, Add	0.28	
			For >200 To 500, Add	0.11	
03 21	13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.19	
			For Up To 100, Add	0.93	
			For >100 To 200, Add	0.49	
			For >200 To 500, Add	0.20	
03 21	13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.81	
			For Up To 100, Add	1.44	
			For >100 To 200, Add	0.75	
			For >200 To 500, Add	0.30	
03 21	13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	2.53	
			For Up To 100, Add	2.04	
			For >100 To 200, Add	1.06	
			For >200 To 500, Add	0.42	
03 21	13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	0.71	
			For Up To 100, Add	0.55	
			For >100 To 200, Add	0.29	
			For >200 To 500, Add	0.12	
03 21	13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.23	
			For Up To 100, Add	0.97	
			For >100 To 200, Add	0.51	
			For >200 To 500, Add	0.20	
03 21	13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.87	
			For Up To 100, Add	1.50	
			For >100 To 200, Add	0.78	
			For >200 To 500, Add	0.31	
03 21	13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	2.62	
			For Up To 100, Add	2.13	
			For >100 To 200, Add	1.11	
			For >200 To 500, Add	0.44	
03 21	13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	3.46	
			For Up To 100, Add	2.19	
			For >100 To 200, Add	1.23	
			For >200 To 400, Add	0.59	
03 21	13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	4.40	
			For Up To 100, Add	2.82	
			For >100 To 200, Add	1.58	
			For >200 To 400, Add	0.76	
03 21	13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	5.48	
			For Up To 100, Add	3.55	
			For >100 To 200, Add	1.98	
			For >200 To 400, Add	0.96	
03 21	13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	6.78	
			For Up To 100, Add	3.58	
			For >100 To 200, Add	1.87	
			For >200 To 300, Add	0.94	
03 21	13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	8.19	
			For Up To 100, Add	4.37	
			For >100 To 200, Add	2.27	
			For >200 To 300, Add	1.14	
03 21	13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	11.53	
			For Up To 100, Add	6.21	
			For >100 To 200, Add	3.22	
			For >200 To 300, Add	1.61	
03 21	13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	20.03	
			For Up To 100, Add	10.89	
			For >100 To 200, Add	5.63	
			For >200 To 300, Add	2.82	
03 21	13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.70	
			For Up To 100, Add	2.21	
			For >100 To 200, Add	1.15	
			For >200 To 500, Add	0.46	
03 21	13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	3.57	
			For Up To 100, Add	2.27	
			For >100 To 200, Add	1.28	
			For >200 To 400, Add	0.61	
03 21	13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	4.54	
			For Up To 100, Add	2.93	
			For >100 To 200, Add	1.64	
			For >200 To 400, Add	0.79	
03 21	13 00-0164	LF	#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	5.66	
			For Up To 100, Add	3.68	
			For >100 To 200, Add	2.05	
			For >200 To 400, Add	0.99	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0165 LF #10, Grade 75, Walls, Galvanized Steel Reinforcement Bar	7.01	
For Up To 100, Add	3.72	
For >100 To 200, Add	1.94	
For >200 To 300, Add	0.97	
03 21 13 00-0166 LF #11, Grade 75, Walls, Galvanized Steel Reinforcement Bar	8.48	
For Up To 100, Add	4.54	
For >100 To 200, Add	2.36	
For >200 To 300, Add	1.18	
03 21 13 00-0167 LF #14, Grade 75, Walls, Galvanized Steel Reinforcement Bar	11.94	
For Up To 100, Add	6.45	
For >100 To 200, Add	3.35	
For >200 To 300, Add	1.67	
03 21 13 00-0168 LF #18, Grade 75, Walls, Galvanized Steel Reinforcement Bar	20.77	
For Up To 100, Add	11.34	
For >100 To 200, Add	5.86	
For >200 To 300, Add	2.93	

03 21 16 Epoxy-Coated Reinforcement Steel Bars (03 21)

03 21 16 00-0001 Beams And Girders, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0002 LF #3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.81	
For Up To 100, Add	0.56	
For >100 To 200, Add	0.30	
For >200 To 500, Add	0.12	
03 21 16 00-0003 LF #4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.37	
For Up To 100, Add	0.97	
For >100 To 200, Add	0.52	
For >200 To 500, Add	0.21	
03 21 16 00-0004 LF #5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.07	
For Up To 100, Add	1.49	
For >100 To 200, Add	0.80	
For >200 To 500, Add	0.32	
03 21 16 00-0005 LF #6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.87	
For Up To 100, Add	2.11	
For >100 To 200, Add	1.12	
For >200 To 500, Add	0.45	
03 21 16 00-0006 LF #3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.82	
For Up To 100, Add	0.57	
For >100 To 200, Add	0.31	
For >200 To 500, Add	0.12	
03 21 16 00-0007 LF #4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.40	
For Up To 100, Add	1.00	
For >100 To 200, Add	0.54	
For >200 To 500, Add	0.21	
03 21 16 00-0008 LF #5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.11	
For Up To 100, Add	1.53	
For >100 To 200, Add	0.82	
For >200 To 500, Add	0.33	
03 21 16 00-0009 LF #6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.92	
For Up To 100, Add	2.16	
For >100 To 200, Add	1.14	
For >200 To 500, Add	0.46	
03 21 16 00-0010 LF #3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.84	
For Up To 100, Add	0.59	
For >100 To 200, Add	0.32	
For >200 To 500, Add	0.13	
03 21 16 00-0011 LF #4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.43	
For Up To 100, Add	1.03	
For >100 To 200, Add	0.55	
For >200 To 500, Add	0.22	
03 21 16 00-0012 LF #5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.17	
For Up To 100, Add	1.59	
For >100 To 200, Add	0.85	
For >200 To 500, Add	0.34	
03 21 16 00-0013 LF #6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.01	
For Up To 100, Add	2.25	
For >100 To 200, Add	1.19	
For >200 To 500, Add	0.48	
03 21 16 00-0014 LF #7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.93	
For Up To 100, Add	2.32	
For >100 To 200, Add	1.34	
For >200 To 400, Add	0.63	
03 21 16 00-0015 LF #8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.93	
For Up To 100, Add	2.96	
For >100 To 200, Add	1.70	
For >200 To 400, Add	0.80	
03 21 16 00-0016 LF #9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.09	
For Up To 100, Add	3.70	
For >100 To 200, Add	2.11	
For >200 To 400, Add	1.00	
03 21 16 00-0017 LF #10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.48	
For Up To 100, Add	3.74	
For >100 To 200, Add	1.99	
For >200 To 300, Add	1.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0018	LF		#11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	8.95	
			For Up To 100, Add	4.53	
			For >100 To 200, Add	2.40	
			For >200 To 300, Add	1.20	
03 21 16 00-0019	LF		#14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	12.49	
			For Up To 100, Add	6.40	
			For >100 To 200, Add	3.38	
			For >200 To 300, Add	1.69	
03 21 16 00-0020	LF		#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	21.48	
			For Up To 100, Add	11.16	
			For >100 To 200, Add	5.87	
			For >200 To 300, Add	2.93	
03 21 16 00-0021	LF		#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.09	
			For Up To 100, Add	2.33	
			For >100 To 200, Add	1.23	
			For >200 To 500, Add	0.49	
03 21 16 00-0022	LF		#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.04	
			For Up To 100, Add	2.40	
			For >100 To 200, Add	1.38	
			For >200 To 400, Add	0.65	
03 21 16 00-0023	LF		#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.07	
			For Up To 100, Add	3.07	
			For >100 To 200, Add	1.75	
			For >200 To 400, Add	0.83	
03 21 16 00-0024	LF		#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.28	
			For Up To 100, Add	3.85	
			For >100 To 200, Add	2.19	
			For >200 To 400, Add	1.04	
03 21 16 00-0025	LF		#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.72	
			For Up To 100, Add	3.88	
			For >100 To 200, Add	2.07	
			For >200 To 300, Add	1.03	
03 21 16 00-0026	LF		#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	9.24	
			For Up To 100, Add	4.70	
			For >100 To 200, Add	2.49	
			For >200 To 300, Add	1.25	
03 21 16 00-0027	LF		#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	12.91	
			For Up To 100, Add	6.65	
			For >100 To 200, Add	3.51	
			For >200 To 300, Add	1.75	
03 21 16 00-0028	LF		#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	22.23	
			For Up To 100, Add	11.61	
			For >100 To 200, Add	6.09	
			For >200 To 300, Add	3.05	
03 21 16 00-0029			Columns, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>		
			Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0030	LF		#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	0.84	
			For Up To 100, Add	0.58	
			For >100 To 200, Add	0.31	
			For >200 To 500, Add	0.12	
03 21 16 00-0031	LF		#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.45	
			For Up To 100, Add	1.01	
			For >100 To 200, Add	0.54	
			For >200 To 500, Add	0.22	
03 21 16 00-0032	LF		#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.16	
			For Up To 100, Add	1.53	
			For >100 To 200, Add	0.82	
			For >200 To 500, Add	0.33	
03 21 16 00-0033	LF		#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	3.00	
			For Up To 100, Add	2.16	
			For >100 To 200, Add	1.15	
			For >200 To 500, Add	0.46	
03 21 16 00-0034	LF		#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	0.85	
			For Up To 100, Add	0.59	
			For >100 To 200, Add	0.32	
			For >200 To 500, Add	0.13	
03 21 16 00-0035	LF		#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.48	
			For Up To 100, Add	1.04	
			For >100 To 200, Add	0.56	
			For >200 To 500, Add	0.22	
03 21 16 00-0036	LF		#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.20	
			For Up To 100, Add	1.57	
			For >100 To 200, Add	0.84	
			For >200 To 500, Add	0.34	
03 21 16 00-0037	LF		#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	3.05	
			For Up To 100, Add	2.21	
			For >100 To 200, Add	1.18	
			For >200 To 500, Add	0.47	
03 21 16 00-0038	LF		#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	0.87	
			For Up To 100, Add	0.61	
			For >100 To 200, Add	0.33	
			For >200 To 500, Add	0.13	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0039 LF #4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.51	
For Up To 100, Add	1.07	
For >100 To 200, Add	0.57	
For >200 To 500, Add	0.23	
03 21 16 00-0040 LF #5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.26	
For Up To 100, Add	1.63	
For >100 To 200, Add	0.87	
For >200 To 500, Add	0.35	
03 21 16 00-0041 LF #6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	3.14	
For Up To 100, Add	2.30	
For >100 To 200, Add	1.22	
For >200 To 500, Add	0.49	
03 21 16 00-0042 LF #7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	4.09	
For Up To 100, Add	2.38	
For >100 To 200, Add	1.38	
For >200 To 400, Add	0.65	
03 21 16 00-0043 LF #8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	5.11	
For Up To 100, Add	3.02	
For >100 To 200, Add	1.74	
For >200 To 400, Add	0.82	
03 21 16 00-0044 LF #9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	6.30	
For Up To 100, Add	3.78	
For >100 To 200, Add	2.16	
For >200 To 400, Add	1.02	
03 21 16 00-0045 LF #10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	7.72	
For Up To 100, Add	3.81	
For >100 To 200, Add	2.04	
For >200 To 300, Add	1.02	
03 21 16 00-0046 LF #11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	9.23	
For Up To 100, Add	4.61	
For >100 To 200, Add	2.46	
For >200 To 300, Add	1.23	
03 21 16 00-0047 LF #14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	12.85	
For Up To 100, Add	6.51	
For >100 To 200, Add	3.45	
For >200 To 300, Add	1.73	
03 21 16 00-0048 LF #18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	22.05	
For Up To 100, Add	11.33	
For >100 To 200, Add	5.98	
For >200 To 300, Add	2.99	
03 21 16 00-0049 LF #6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	3.22	
For Up To 100, Add	2.38	
For >100 To 200, Add	1.26	
For >200 To 500, Add	0.50	
03 21 16 00-0050 LF #7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	4.20	
For Up To 100, Add	2.46	
For >100 To 200, Add	1.42	
For >200 To 400, Add	0.67	
03 21 16 00-0051 LF #8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	5.25	
For Up To 100, Add	3.13	
For >100 To 200, Add	1.80	
For >200 To 400, Add	0.85	
03 21 16 00-0052 LF #9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	6.49	
For Up To 100, Add	3.92	
For >100 To 200, Add	2.24	
For >200 To 400, Add	1.06	
03 21 16 00-0053 LF #10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	7.96	
For Up To 100, Add	3.95	
For >100 To 200, Add	2.11	
For >200 To 300, Add	1.06	
03 21 16 00-0054 LF #11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	9.52	
For Up To 100, Add	4.79	
For >100 To 200, Add	2.55	
For >200 To 300, Add	1.27	
03 21 16 00-0055 LF #14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	13.27	
For Up To 100, Add	6.76	
For >100 To 200, Add	3.58	
For >200 To 300, Add	1.79	
03 21 16 00-0056 LF #18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	22.80	
For Up To 100, Add	11.78	
For >100 To 200, Add	6.21	
For >200 To 300, Add	3.10	
 03 21 16 00-0057 Footings, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0058 LF #3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	0.75	
For Up To 100, Add	0.54	
For >100 To 200, Add	0.29	
For >200 To 500, Add	0.12	
03 21 16 00-0059 LF #4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.28	
For Up To 100, Add	0.94	
For >100 To 200, Add	0.50	
For >200 To 500, Add	0.20	

03	Concrete
03 20	Concrete Reinforcing
03 21	Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0060	LF	#5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.93	
		<i>For Up To 100, Add</i>		1.44	
		<i>For >100 To 200, Add</i>		0.76	
		<i>For >200 To 500, Add</i>		0.30	
03 21 16 00-0061	LF	#6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.69	
		<i>For Up To 100, Add</i>		2.04	
		<i>For >100 To 200, Add</i>		1.07	
		<i>For >200 To 500, Add</i>		0.43	
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.76	
		<i>For Up To 100, Add</i>		0.55	
		<i>For >100 To 200, Add</i>		0.29	
		<i>For >200 To 500, Add</i>		0.12	
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.31	
03 21 16 00-0064	LF	#5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.97	
		<i>For Up To 100, Add</i>		1.48	
		<i>For >100 To 200, Add</i>		0.78	
		<i>For >200 To 500, Add</i>		0.31	
03 21 16 00-0065	LF	#6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.74	
		<i>For Up To 100, Add</i>		2.09	
		<i>For >100 To 200, Add</i>		1.10	
		<i>For >200 To 500, Add</i>		0.44	
03 21 16 00-0066	LF	#3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.78	
		<i>For Up To 100, Add</i>		0.57	
		<i>For >100 To 200, Add</i>		0.30	
		<i>For >200 To 500, Add</i>		0.12	
03 21 16 00-0067	LF	#4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.34	
		<i>For Up To 100, Add</i>		1.00	
		<i>For >100 To 200, Add</i>		0.53	
		<i>For >200 To 500, Add</i>		0.21	
03 21 16 00-0068	LF	#5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.03	
		<i>For Up To 100, Add</i>		1.54	
		<i>For >100 To 200, Add</i>		0.81	
		<i>For >200 To 500, Add</i>		0.32	
03 21 16 00-0069	LF	#6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.83	
		<i>For Up To 100, Add</i>		2.18	
		<i>For >100 To 200, Add</i>		1.14	
		<i>For >200 To 500, Add</i>		0.46	
03 21 16 00-0070	LF	#7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	3.70	
		<i>For Up To 100, Add</i>		2.24	
		<i>For >100 To 200, Add</i>		1.28	
		<i>For >200 To 400, Add</i>		0.61	
03 21 16 00-0071	LF	#8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	4.66	
		<i>For Up To 100, Add</i>		2.87	
		<i>For >100 To 200, Add</i>		1.63	
		<i>For >200 To 400, Add</i>		0.78	
03 21 16 00-0072	LF	#9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	5.76	
		<i>For Up To 100, Add</i>		3.59	
		<i>For >100 To 200, Add</i>		2.03	
		<i>For >200 To 400, Add</i>		0.97	
03 21 16 00-0073	LF	#10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	7.10	
		<i>For Up To 100, Add</i>		3.62	
		<i>For >100 To 200, Add</i>		1.92	
		<i>For >200 To 300, Add</i>		0.96	
03 21 16 00-0074	LF	#11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	8.53	
		<i>For Up To 100, Add</i>		4.40	
		<i>For >100 To 200, Add</i>		2.32	
		<i>For >200 To 300, Add</i>		1.16	
03 21 16 00-0075	LF	#14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	11.94	
		<i>For Up To 100, Add</i>		6.23	
		<i>For >100 To 200, Add</i>		3.27	
		<i>For >200 To 300, Add</i>		1.64	
03 21 16 00-0076	LF	#18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	20.61	
		<i>For Up To 100, Add</i>		10.90	
		<i>For >100 To 200, Add</i>		5.69	
		<i>For >200 To 300, Add</i>		2.85	
03 21 16 00-0077	LF	#6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.91	
		<i>For Up To 100, Add</i>		2.26	
		<i>For >100 To 200, Add</i>		1.18	
		<i>For >200 To 500, Add</i>		0.47	
03 21 16 00-0078	LF	#7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	3.81	
		<i>For Up To 100, Add</i>		2.32	
		<i>For >100 To 200, Add</i>		1.32	
		<i>For >200 To 400, Add</i>		0.63	
03 21 16 00-0079	LF	#8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	4.80	
		<i>For Up To 100, Add</i>		2.97	
		<i>For >100 To 200, Add</i>		1.68	
		<i>For >200 To 400, Add</i>		0.80	
03 21 16 00-0080	LF	#9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	5.95	
		<i>For Up To 100, Add</i>		3.73	
		<i>For >100 To 200, Add</i>		2.11	
		<i>For >200 To 400, Add</i>		1.01	
03 21 16 00-0081	LF	#10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	7.34	
		<i>For Up To 100, Add</i>		3.77	
		<i>For >100 To 200, Add</i>		1.99	
		<i>For >200 To 300, Add</i>		0.99	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0082 LF #11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	8.82	
For Up To 100, Add	4.58	
For >100 To 200, Add	2.41	
For >200 To 300, Add	1.20	
03 21 16 00-0083 LF #14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	12.36	
For Up To 100, Add	6.49	
For >100 To 200, Add	3.40	
For >200 To 300, Add	1.70	
03 21 16 00-0084 LF #18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	21.36	
For Up To 100, Add	11.35	
For >100 To 200, Add	5.92	
For >200 To 300, Add	2.96	
03 21 16 00-0085 Slab On Grade, Epoxy Coated Steel Reinforcement Bar (03 21 16)		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0086 LF #3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.73	
For Up To 100, Add	0.53	
For >100 To 200, Add	0.28	
For >200 To 500, Add	0.11	
03 21 16 00-0087 LF #4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.25	
For Up To 100, Add	0.93	
For >100 To 200, Add	0.49	
For >200 To 500, Add	0.20	
03 21 16 00-0088 LF #5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.88	
For Up To 100, Add	1.42	
For >100 To 200, Add	0.75	
For >200 To 500, Add	0.30	
03 21 16 00-0089 LF #6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.61	
For Up To 100, Add	2.00	
For >100 To 200, Add	1.05	
For >200 To 500, Add	0.42	
03 21 16 00-0090 LF #3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.74	
For Up To 100, Add	0.54	
For >100 To 200, Add	0.29	
For >200 To 500, Add	0.12	
03 21 16 00-0091 LF #4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.28	
For Up To 100, Add	0.96	
For >100 To 200, Add	0.51	
For >200 To 500, Add	0.20	
03 21 16 00-0092 LF #5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.92	
For Up To 100, Add	1.46	
For >100 To 200, Add	0.77	
For >200 To 500, Add	0.31	
03 21 16 00-0093 LF #6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.66	
For Up To 100, Add	2.05	
For >100 To 200, Add	1.08	
For >200 To 500, Add	0.43	
03 21 16 00-0094 LF #3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.76	
For Up To 100, Add	0.56	
For >100 To 200, Add	0.30	
For >200 To 500, Add	0.12	
03 21 16 00-0095 LF #4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.31	
For Up To 100, Add	0.99	
For >100 To 200, Add	0.52	
For >200 To 500, Add	0.21	
03 21 16 00-0096 LF #5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.98	
For Up To 100, Add	1.52	
For >100 To 200, Add	0.80	
For >200 To 500, Add	0.32	
03 21 16 00-0097 LF #6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.75	
For Up To 100, Add	2.14	
For >100 To 200, Add	1.12	
For >200 To 500, Add	0.45	
03 21 16 00-0098 LF #7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.62	
For Up To 100, Add	2.21	
For >100 To 200, Add	1.26	
For >200 To 400, Add	0.60	
03 21 16 00-0099 LF #8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.57	
For Up To 100, Add	2.84	
For >100 To 200, Add	1.61	
For >200 To 400, Add	0.77	
03 21 16 00-0100 LF #9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.66	
For Up To 100, Add	3.55	
For >100 To 200, Add	2.00	
For >200 To 400, Add	0.96	
03 21 16 00-0101 LF #10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.97	
For Up To 100, Add	3.58	
For >100 To 200, Add	1.89	
For >200 To 300, Add	0.95	
03 21 16 00-0102 LF #11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.40	
For Up To 100, Add	4.36	
For >100 To 200, Add	2.29	
For >200 To 300, Add	1.15	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0103	LF		#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	11.75	
			For Up To 100, Add	6.18	
			For >100 To 200, Add	3.23	
			For >200 To 300, Add	1.62	
03 21 16 00-0104	LF		#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	20.33	
			For Up To 100, Add	10.82	
			For >100 To 200, Add	5.64	
			For >200 To 300, Add	2.82	
03 21 16 00-0105	LF		#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.83	
			For Up To 100, Add	2.22	
			For >100 To 200, Add	1.16	
			For >200 To 500, Add	0.47	
03 21 16 00-0106	LF		#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.73	
			For Up To 100, Add	2.29	
			For >100 To 200, Add	1.30	
			For >200 To 400, Add	0.62	
03 21 16 00-0107	LF		#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.71	
			For Up To 100, Add	2.94	
			For >100 To 200, Add	1.66	
			For >200 To 400, Add	0.79	
03 21 16 00-0108	LF		#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.85	
			For Up To 100, Add	3.70	
			For >100 To 200, Add	2.08	
			For >200 To 400, Add	1.00	
03 21 16 00-0109	LF		#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	7.21	
			For Up To 100, Add	3.73	
			For >100 To 200, Add	1.96	
			For >200 To 300, Add	0.98	
03 21 16 00-0110	LF		#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.69	
			For Up To 100, Add	4.54	
			For >100 To 200, Add	2.38	
			For >200 To 300, Add	1.19	
03 21 16 00-0111	LF		#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	12.17	
			For Up To 100, Add	6.43	
			For >100 To 200, Add	3.36	
			For >200 To 300, Add	1.68	
03 21 16 00-0112	LF		#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	21.08	
			For Up To 100, Add	11.27	
			For >100 To 200, Add	5.86	
			For >200 To 300, Add	2.93	
03 21 16 00-0113			Elevated Slabs, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>		
			Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0114	LF		#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.68	
			For Up To 100, Add	0.51	
			For >100 To 200, Add	0.27	
			For >200 To 500, Add	0.11	
03 21 16 00-0115	LF		#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.17	
			For Up To 100, Add	0.89	
			For >100 To 200, Add	0.47	
			For >200 To 500, Add	0.19	
03 21 16 00-0116	LF		#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.78	
			For Up To 100, Add	1.38	
			For >100 To 200, Add	0.72	
			For >200 To 500, Add	0.29	
03 21 16 00-0117	LF		#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.49	
			For Up To 100, Add	1.96	
			For >100 To 200, Add	1.02	
			For >200 To 500, Add	0.41	
03 21 16 00-0118	LF		#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.69	
			For Up To 100, Add	0.52	
			For >100 To 200, Add	0.28	
			For >200 To 500, Add	0.11	
03 21 16 00-0119	LF		#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.20	
			For Up To 100, Add	0.92	
			For >100 To 200, Add	0.49	
			For >200 To 500, Add	0.19	
03 21 16 00-0120	LF		#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.82	
			For Up To 100, Add	1.42	
			For >100 To 200, Add	0.74	
			For >200 To 500, Add	0.30	
03 21 16 00-0121	LF		#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.54	
			For Up To 100, Add	2.01	
			For >100 To 200, Add	1.05	
			For >200 To 500, Add	0.42	
03 21 16 00-0122	LF		#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.71	
			For Up To 100, Add	0.54	
			For >100 To 200, Add	0.29	
			For >200 To 500, Add	0.11	
03 21 16 00-0123	LF		#4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.23	
			For Up To 100, Add	0.95	
			For >100 To 200, Add	0.50	
			For >200 To 500, Add	0.20	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0124 LF #5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.88	
For Up To 100, Add	1.48	
For >100 To 200, Add	0.77	
For >200 To 500, Add	0.31	
03 21 16 00-0125 LF #6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.63	
For Up To 100, Add	2.10	
For >100 To 200, Add	1.09	
For >200 To 500, Add	0.44	
03 21 16 00-0126 LF #7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.47	
For Up To 100, Add	2.16	
For >100 To 200, Add	1.22	
For >200 To 400, Add	0.58	
03 21 16 00-0127 LF #8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.38	
For Up To 100, Add	2.77	
For >100 To 200, Add	1.56	
For >200 To 400, Add	0.75	
03 21 16 00-0128 LF #9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.45	
For Up To 100, Add	3.48	
For >100 To 200, Add	1.95	
For >200 To 400, Add	0.94	
03 21 16 00-0129 LF #10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.73	
For Up To 100, Add	3.51	
For >100 To 200, Add	1.84	
For >200 To 300, Add	0.92	
03 21 16 00-0130 LF #11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	8.11	
For Up To 100, Add	4.28	
For >100 To 200, Add	2.24	
For >200 To 300, Add	1.12	
03 21 16 00-0131 LF #14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	11.39	
For Up To 100, Add	6.07	
For >100 To 200, Add	3.16	
For >200 To 300, Add	1.58	
03 21 16 00-0132 LF #18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	19.76	
For Up To 100, Add	10.64	
For >100 To 200, Add	5.52	
For >200 To 300, Add	2.76	
03 21 16 00-0133 LF #6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.71	
For Up To 100, Add	2.18	
For >100 To 200, Add	1.13	
For >200 To 500, Add	0.45	
03 21 16 00-0134 LF #7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.58	
For Up To 100, Add	2.24	
For >100 To 200, Add	1.27	
For >200 To 400, Add	0.61	
03 21 16 00-0135 LF #8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.52	
For Up To 100, Add	2.87	
For >100 To 200, Add	1.61	
For >200 To 400, Add	0.78	
03 21 16 00-0136 LF #9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.64	
For Up To 100, Add	3.62	
For >100 To 200, Add	2.03	
For >200 To 400, Add	0.98	
03 21 16 00-0137 LF #10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.97	
For Up To 100, Add	3.65	
For >100 To 200, Add	1.92	
For >200 To 300, Add	0.96	
03 21 16 00-0138 LF #11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	8.40	
For Up To 100, Add	4.45	
For >100 To 200, Add	2.32	
For >200 To 300, Add	1.16	
03 21 16 00-0139 LF #14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	11.81	
For Up To 100, Add	6.32	
For >100 To 200, Add	3.29	
For >200 To 300, Add	1.64	
03 21 16 00-0140 LF #18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	20.51	
For Up To 100, Add	11.09	
For >100 To 200, Add	5.75	
For >200 To 300, Add	2.87	
03 21 16 00-0141 Walls, Epoxy Coated Steel Reinforcement Bar (03 21 16)		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0142 LF #3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.66	
For Up To 100, Add	0.50	
For >100 To 200, Add	0.27	
For >200 To 500, Add	0.11	
03 21 16 00-0143 LF #4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.14	
For Up To 100, Add	0.88	
For >100 To 200, Add	0.46	
For >200 To 500, Add	0.19	
03 21 16 00-0144 LF #5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.73	
For Up To 100, Add	1.36	
For >100 To 200, Add	0.71	
For >200 To 500, Add	0.28	

03	Concrete
03 20	Concrete Reinforcing
03 21	Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	16 00-0145	LF	#6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.42	
			For Up To 100, Add	1.93	
			For >100 To 200, Add	1.01	
			For >200 To 500, Add	0.40	
03 21	16 00-0146	LF	#3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.67	
			For Up To 100, Add	0.51	
			For >100 To 200, Add	0.27	
			For >200 To 500, Add	0.11	
03 21	16 00-0147	LF	#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.17	
			For Up To 100, Add	0.91	
			For >100 To 200, Add	0.48	
			For >200 To 500, Add	0.19	
03 21	16 00-0148	LF	#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.77	
			For Up To 100, Add	1.40	
			For >100 To 200, Add	0.73	
			For >200 To 500, Add	0.29	
03 21	16 00-0149	LF	#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.47	
			For Up To 100, Add	1.98	
			For >100 To 200, Add	1.03	
			For >200 To 500, Add	0.41	
03 21	16 00-0150	LF	#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.69	
			For Up To 100, Add	0.53	
			For >100 To 200, Add	0.28	
			For >200 To 500, Add	0.11	
03 21	16 00-0151	LF	#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.20	
			For Up To 100, Add	0.94	
			For >100 To 200, Add	0.49	
			For >200 To 500, Add	0.20	
03 21	16 00-0152	LF	#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.83	
			For Up To 100, Add	1.46	
			For >100 To 200, Add	0.76	
			For >200 To 500, Add	0.30	
03 21	16 00-0153	LF	#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.56	
			For Up To 100, Add	2.07	
			For >100 To 200, Add	1.08	
			For >200 To 500, Add	0.43	
03 21	16 00-0154	LF	#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.37	
			For Up To 100, Add	2.12	
			For >100 To 200, Add	1.20	
			For >200 To 400, Add	0.57	
03 21	16 00-0155	LF	#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.29	
			For Up To 100, Add	2.74	
			For >100 To 200, Add	1.54	
			For >200 To 400, Add	0.74	
03 21	16 00-0156	LF	#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.34	
			For Up To 100, Add	3.44	
			For >100 To 200, Add	1.92	
			For >200 To 400, Add	0.93	
03 21	16 00-0157	LF	#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.60	
			For Up To 100, Add	3.47	
			For >100 To 200, Add	1.82	
			For >200 To 300, Add	0.91	
03 21	16 00-0158	LF	#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.97	
			For Up To 100, Add	4.23	
			For >100 To 200, Add	2.21	
			For >200 To 300, Add	1.10	
03 21	16 00-0159	LF	#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	11.21	
			For Up To 100, Add	6.02	
			For >100 To 200, Add	3.13	
			For >200 To 300, Add	1.56	
03 21	16 00-0160	LF	#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	19.47	
			For Up To 100, Add	10.56	
			For >100 To 200, Add	5.47	
			For >200 To 300, Add	2.73	
03 21	16 00-0161	LF	#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.64	
			For Up To 100, Add	2.15	
			For >100 To 200, Add	1.12	
			For >200 To 500, Add	0.45	
03 21	16 00-0162	LF	#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.48	
			For Up To 100, Add	2.21	
			For >100 To 200, Add	1.24	
			For >200 To 400, Add	0.60	
03 21	16 00-0163	LF	#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.43	
			For Up To 100, Add	2.84	
			For >100 To 200, Add	1.59	
			For >200 To 400, Add	0.77	
03 21	16 00-0164	LF	#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.53	
			For Up To 100, Add	3.58	
			For >100 To 200, Add	2.00	
			For >200 To 400, Add	0.97	
03 21	16 00-0165	LF	#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.84	
			For Up To 100, Add	3.62	
			For >100 To 200, Add	1.89	
			For >200 To 300, Add	0.94	



Concrete	03	CS
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0166 LF #11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	8.26	
For Up To 100, Add	4.41	
For >100 To 200, Add	2.30	
For >200 To 300, Add	1.15	
03 21 16 00-0167 LF #14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	11.63	
For Up To 100, Add	6.27	
For >100 To 200, Add	3.25	
For >200 To 300, Add	1.63	
03 21 16 00-0168 LF #18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	20.22	
For Up To 100, Add	11.01	
For >100 To 200, Add	5.69	
For >200 To 300, Add	2.85	
03 21 16 00-0169 Epoxy Coated Deformed Straight Dowels (03 21 16)		
Note: Excludes drilling.		
03 21 16 00-0170 EA 3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	4.96	
For Up To 12" Length, Deduct	-0.48	
For >12" To <24" Length, Deduct	-0.24	
03 21 16 00-0171 EA 1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	5.83	
For Up To 12" Length, Deduct	-0.73	
For >12" To <24" Length, Deduct	-0.36	
03 21 16 00-0172 EA 5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	7.21	
For Up To 12" Length, Deduct	-1.09	
For >12" To <24" Length, Deduct	-0.54	
03 21 16 00-0173 EA 3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	8.95	
For Up To 12" Length, Deduct	-1.45	
For >12" To <24" Length, Deduct	-0.72	
03 21 16 00-0174 EA 7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	10.74	
For Up To 12" Length, Deduct	-1.97	
For >12" To <24" Length, Deduct	-0.98	
03 21 16 00-0175 EA 1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	12.49	
For Up To 12" Length, Deduct	-2.42	
For >12" To <24" Length, Deduct	-1.21	
03 21 16 00-0176 EA 1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	14.73	
For Up To 12" Length, Deduct	-2.93	
For >12" To <24" Length, Deduct	-1.47	
03 21 16 00-0177 EA 1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	17.73	
For Up To 12" Length, Deduct	-3.55	
For >12" To <24" Length, Deduct	-1.78	

03 22 Fabric and Grid Reinforcing (03 20)

03 22 11 Plain Steel Welded Wire Fabric Reinforcing (03 22)

Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.

03 22 11 00-0001 Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 11)

Note: Includes bar chairs. Under 5 tons. ASTM A-185

03 22 11 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.99	
For >5 Ton, Deduct	-0.14	
03 22 11 00-0003 SF 6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.15	
For >5 Ton, Deduct	-0.16	
03 22 11 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.34	
For >5 Ton, Deduct	-0.19	
03 22 11 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.64	
For >5 Ton, Deduct	-0.22	
03 22 11 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.22	
For >5 Ton, Deduct	-0.17	
03 22 11 00-0007 SF 4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.41	
For >5 Ton, Deduct	-0.19	
03 22 11 00-0008 SF 4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.87	
For >5 Ton, Deduct	-0.24	
03 22 11 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	2.21	
For >5 Ton, Deduct	-0.28	
03 22 11 00-0010 SF 2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9).....	2.14	
For >5 Ton, Deduct	-0.26	

03 22 13 Galvanized Welded Wire Fabric Reinforcing (03 22)

03 22 13 00-0001 Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 13)

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.15	
For >5 Ton, Deduct	-0.16	
03 22 13 00-0003 SF 6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.33	
For >5 Ton, Deduct	-0.18	
03 22 13 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.59	
For >5 Ton, Deduct	-0.21	
03 22 13 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.98	
For >5 Ton, Deduct	-0.25	
03 22 13 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.44	
For >5 Ton, Deduct	-0.19	
03 22 13 00-0007 SF 4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.68	
For >5 Ton, Deduct	-0.22	

03	Concrete
03 20	Concrete Reinforcing
03 22	Fabric and Grid Reinforcing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 22 13 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) .....2.31 <i>For >5 Ton, Deduct</i>	-0.28	
03 22 13 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) .....2.76 <i>For >5 Ton, Deduct</i>	-0.33	
03 22 13 00-0010			Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns ^(03 22 13) Note: Includes bar chairs. Under 5 tons.		
03 22 13 00-0011	SF		2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5) .....3.73 <i>For >5 Ton, Deduct</i>	-0.56	
03 22 16			Epoxy-Coated Welded Wire Fabric Reinforcing ^(03 22)		
03 22 16 00-0001			Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs ^(03 22 16) Note: Includes bar chairs. Under 5 tons.		
03 22 16 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) .....1.13 <i>For >5 Ton, Deduct</i>	-0.16	
03 22 16 00-0003	SF		6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) .....1.31 <i>For >5 Ton, Deduct</i>	-0.18	
03 22 16 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) .....1.56 <i>For >5 Ton, Deduct</i>	-0.21	
03 22 16 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) .....1.94 <i>For >5 Ton, Deduct</i>	-0.25	
03 22 16 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) .....1.41 <i>For >5 Ton, Deduct</i>	-0.19	
03 22 16 00-0007	SF		4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) .....1.65 <i>For >5 Ton, Deduct</i>	-0.22	
03 22 16 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) .....2.26 <i>For >5 Ton, Deduct</i>	-0.28	
03 22 16 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) .....2.69 <i>For >5 Ton, Deduct</i>	-0.33	
03 22 23			Stainless Steel Welded Wire Fabric Reinforcing ^(03 22) Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.		
03 22 23 00-0001			Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs ^(03 22 23)		
03 22 23 00-0002	SF		6" x 6" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs .....2.18		
03 22 23 00-0003	SF		4" x 4" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs .....2.85		
03 30			Cast-In-Place Concrete ⁽⁰³⁾ See CSI section 01 74 19 00-0039 for hauling over 15 miles.		
03 30 53			Miscellaneous Cast-in-Place Concrete ^(03 30)		
03 30 53 00-0001			Place Concrete Duct Bank ^(03 30 53)		
03 30 53 00-0002	CY		Direct Chute, Place 3,000 PSI Concrete Duct Bank .....258.25 <i>For 2,000 PSI Concrete, Deduct</i>	-12.15	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.08	
			<i>For 3,500 PSI Concrete, Add</i>	11.25	
			<i>For 3,750 PSI Concrete, Add</i>	15.30	
			<i>For 4,000 PSI Concrete, Add</i>	19.35	
			<i>For 4,500 PSI Concrete, Add</i>	22.50	
			<i>For 5,000 PSI Concrete, Add</i>	25.65	
			<i>For 6,000 PSI Concrete, Add</i>	60.75	
			<i>For White Cement Concrete, Add</i>	27.00	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	29.25	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.50	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	78.75	
			<i>For Up To 20, Add</i>	13.30	
			<i>For >20 To 50, Add</i>	4.99	
			<i>For >100 To 200, Deduct</i>	-5.17	
			<i>For >200 To 400, Deduct</i>	-10.33	
			<i>For >400, Deduct</i>	-15.50	
03 30 53 00-0003			Place Concrete Thrust Blocks And Backfill ^(03 30 53)		



Concrete	03	03
Cast-In-Place Concrete	03 30	
Miscellaneous Cast-in-Place Concrete	03 30 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 30 53 00-0004 CY Direct Chute, Place 3,000 PSI Concrete Thrust Blocks	300.07	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	30.03	
For >20 To 50, Add	11.26	
For >100 To 200, Deduct	-6.00	
For >200 To 400, Deduct	-12.00	
For >400, Deduct	-18.00	
03 30 53 00-0005 Place Concrete Slurry (03 30 53)		
03 30 53 00-0006 CY Direct Chute, Place Two Sack Cement, Concrete Slurry	236.63	
Note: Two 94# sack cement per CY.		
03 30 53 00-0007 CY Concrete Pump, Place Two Sack Cement, Concrete Slurry	230.00	
Note: Two 94# sack cement per CY. Excludes pumping equipment.		
03 30 53 00-0008 Hand Mix And Place Concrete (03 30 53)		
03 30 53 00-0009 CF Hand Mix And Place Concrete	34.10	
Note: For use where conventional equipment access is limited or when directed by the owner.		
For 2,000 PSI Concrete, Deduct	-0.52	
For 2,500 PSI Concrete, Deduct	-0.26	
For 3,500 PSI Concrete, Add	0.48	
For 3,750 PSI Concrete, Add	0.65	
For 4,000 PSI Concrete, Add	0.83	
For 4,500 PSI Concrete, Add	0.96	
For 5,000 PSI Concrete, Add	1.10	
For 6,000 PSI Concrete, Add	2.60	
For White Cement Concrete, Add	1.15	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	1.25	
For High Early Strength, Type 3 ASTM C150, Add	0.96	
For Lightweight Aggregate, ASTM C330, Add	3.37	
03 31 Structural Concrete (03 30)		
03 31 13 Heavyweight Structural Concrete (03 31)		
Note: Includes delivery, fuel charge and placement of material. See CSI section 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 31 13 00-0086 for small concrete purchases (short load), 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.		
03 31 13 00-0001 Concrete Slab Assemblies (03 31 13)		
03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)		
Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0003 SF 4" 3,000 PSI Slab On Grade Concrete Slabs Assembly	9.25	
For 2,000 PSI Concrete, Deduct	-0.29	
For 2,500 PSI Concrete, Deduct	-0.15	
For 3,500 PSI Concrete, Add	0.10	
For 4,000 PSI Concrete, Add	0.34	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.41	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.61	
For Up To 500, Add	3.37	
For >500 To 1,000, Add	2.34	
For >1,000 To 2,000, Add	1.30	
For >2,000 To 5,000, Add	0.65	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000 To 35,000, Deduct	-0.50	
For >35,000 To 50,000, Deduct	-0.74	
For >50,000 To 70,000, Deduct	-0.97	
For >70,000, Deduct	-1.20	

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0004	SF		5" 3,000 PSI Slab On Grade Concrete Slabs Assembly	10.18	
			For 2,000 PSI Concrete, Deduct	-0.34	
			For 2,500 PSI Concrete, Deduct	-0.17	
			For 3,500 PSI Concrete, Add	0.12	
			For 4,000 PSI Concrete, Add	0.39	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.41	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.61	
			For Up To 500, Add	3.62	
			For >500 To 1,000, Add	2.52	
			For >1,000 To 2,000, Add	1.42	
			For >2,000 To 5,000, Add	0.71	
			For >10,000 To 20,000, Deduct	-0.31	
			For >20,000 To 35,000, Deduct	-0.57	
			For >35,000 To 50,000, Deduct	-0.82	
			For >50,000 To 70,000, Deduct	-1.07	
			For >70,000, Deduct	-1.33	
03 31 13 00-0005	SF		6" 3,000 PSI Slab On Grade Concrete Slabs Assembly	11.49	
			For 2,000 PSI Concrete, Deduct	-0.39	
			For 2,500 PSI Concrete, Deduct	-0.20	
			For 3,500 PSI Concrete, Add	0.14	
			For 4,000 PSI Concrete, Add	0.46	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.41	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.61	
			For Up To 500, Add	3.99	
			For >500 To 1,000, Add	2.78	
			For >1,000 To 2,000, Add	1.57	
			For >2,000 To 5,000, Add	0.79	
			For >10,000 To 20,000, Deduct	-0.36	
			For >20,000 To 35,000, Deduct	-0.65	
			For >35,000 To 50,000, Deduct	-0.94	
			For >50,000 To 70,000, Deduct	-1.22	
			For >70,000, Deduct	-1.51	
03 31 13 00-0006	SF		7" 3,000 PSI Slab On Grade Concrete Slabs Assembly	12.75	
			For 2,000 PSI Concrete, Deduct	-0.45	
			For 2,500 PSI Concrete, Deduct	-0.23	
			For 3,500 PSI Concrete, Add	0.16	
			For 4,000 PSI Concrete, Add	0.53	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.41	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.61	
			For Up To 500, Add	4.31	
			For >500 To 1,000, Add	3.02	
			For >1,000 To 2,000, Add	1.72	
			For >2,000 To 5,000, Add	0.86	
			For >10,000 To 20,000, Deduct	-0.42	
			For >20,000 To 35,000, Deduct	-0.74	
			For >35,000 To 50,000, Deduct	-1.05	
			For >50,000 To 70,000, Deduct	-1.37	
			For >70,000, Deduct	-1.69	
03 31 13 00-0007	SF		8" 3,000 PSI Slab On Grade Concrete Slabs Assembly	13.84	
			For 2,000 PSI Concrete, Deduct	-0.50	
			For 2,500 PSI Concrete, Deduct	-0.25	
			For 3,500 PSI Concrete, Add	0.18	
			For 4,000 PSI Concrete, Add	0.58	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.41	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.61	
			For Up To 500, Add	4.61	
			For >500 To 1,000, Add	3.23	
			For >1,000 To 2,000, Add	1.84	
			For >2,000 To 5,000, Add	0.92	
			For >10,000 To 20,000, Deduct	-0.46	
			For >20,000 To 35,000, Deduct	-0.81	
			For >35,000 To 50,000, Deduct	-1.15	
			For >50,000 To 70,000, Deduct	-1.50	
			For >70,000, Deduct	-1.85	
03 31 13 00-0008	SF		10" 3,000 PSI Slab On Grade Concrete Slabs Assembly	16.62	
			For 2,000 PSI Concrete, Deduct	-0.63	
			For 2,500 PSI Concrete, Deduct	-0.32	
			For 3,500 PSI Concrete, Add	0.22	
			For 4,000 PSI Concrete, Add	0.74	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.41	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.61	
			For Up To 500, Add	5.30	
			For >500 To 1,000, Add	3.73	
			For >1,000 To 2,000, Add	2.16	
			For >2,000 To 5,000, Add	1.08	
			For >10,000 To 20,000, Deduct	-0.58	
			For >20,000 To 35,000, Deduct	-1.00	
			For >35,000 To 50,000, Deduct	-1.41	
			For >50,000 To 70,000, Deduct	-1.83	
			For >70,000, Deduct	-2.25	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0009 SF 12" 3,000 PSI Slab On Grade Concrete Slabs Assembly	18.74	
For 2,000 PSI Concrete, Deduct	-0.73	
For 2,500 PSI Concrete, Deduct	-0.36	
For 3,500 PSI Concrete, Add	0.26	
For 4,000 PSI Concrete, Add	0.85	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.41	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.61	
For Up To 500, Add	5.87	
For >500 To 1,000, Add	4.14	
For >1,000 To 2,000, Add	2.40	
For >2,000 To 5,000, Add	1.20	
For >10,000 To 20,000, Deduct	-0.67	
For >20,000 To 35,000, Deduct	-1.14	
For >35,000 To 50,000, Deduct	-1.61	
For >50,000 To 70,000, Deduct	-2.08	
For >70,000, Deduct	-2.55	
 03 31 13 00-0010 Concrete Delivery And Placement ^(03 31 13)		
Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 01 45 23 00-0000 for additional tests, 03 05 13 00-0001 for admixtures.		
 03 31 13 00-0011 Place Concrete By Method Indicated ^(03 31 13 00-0010)		
Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.		
 03 31 13 00-0012 Place Concrete Pile Caps ^(03 31 13 00-0011)		
03 31 13 00-0013 CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	349.87	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	49.95	
For >20 To 50, Add	18.73	
For >100 To 200, Deduct	-7.00	
For >200 To 400, Deduct	-13.99	
For >400, Deduct	-20.99	
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps	280.20	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	22.08	
For >20 To 50, Add	8.28	
For >100 To 200, Deduct	-5.60	
For >200 To 400, Deduct	-11.21	
For >400, Deduct	-16.81	
03 31 13 00-0015 CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps	296.32	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.16	
For 2,500 PSI Concrete, Deduct	-6.58	
For 3,500 PSI Concrete, Add	12.19	
For 3,750 PSI Concrete, Add	16.58	
For 4,000 PSI Concrete, Add	20.96	
For 4,500 PSI Concrete, Add	24.38	
For 5,000 PSI Concrete, Add	27.79	
For 6,000 PSI Concrete, Add	65.81	
For White Cement Concrete, Add	29.25	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
For High Early Strength, Type 3 ASTM C150, Add	24.38	
For Lightweight Aggregate, ASTM C330, Add	85.31	
For Up To 20, Add	21.03	
For >20 To 50, Add	7.89	
For >100 To 200, Deduct	-5.93	
For >200 To 400, Deduct	-11.85	
For >400, Deduct	-17.78	
 03 31 13 00-0016 Place Concrete Continuous Footings ^(03 31 13 00-0011)		

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0017	CY Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings.....	336.00	
	For 2,000 PSI Concrete, Deduct	-12.15	
	For 2,500 PSI Concrete, Deduct	-6.08	
	For 3,500 PSI Concrete, Add	11.25	
	For 3,750 PSI Concrete, Add	15.30	
	For 4,000 PSI Concrete, Add	19.35	
	For 4,500 PSI Concrete, Add	22.50	
	For 5,000 PSI Concrete, Add	25.65	
	For 6,000 PSI Concrete, Add	60.75	
	For White Cement Concrete, Add	27.00	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
	For High Early Strength, Type 3 ASTM C150, Add	22.50	
	For Lightweight Aggregate, ASTM C330, Add	78.75	
	For Up To 20, Add	44.40	
	For >20 To 50, Add	16.65	
	For >100 To 200, Deduct	-6.72	
	For >200 To 400, Deduct	-13.44	
	For >400, Deduct	-20.16	
03 31 13 00-0018	CY Direct Chute, Place 3,000 PSI Concrete Continuous Footings.....	274.08	
	For 2,000 PSI Concrete, Deduct	-12.15	
	For 2,500 PSI Concrete, Deduct	-6.08	
	For 3,500 PSI Concrete, Add	11.25	
	For 3,750 PSI Concrete, Add	15.30	
	For 4,000 PSI Concrete, Add	19.35	
	For 4,500 PSI Concrete, Add	22.50	
	For 5,000 PSI Concrete, Add	25.65	
	For 6,000 PSI Concrete, Add	60.75	
	For White Cement Concrete, Add	27.00	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
	For High Early Strength, Type 3 ASTM C150, Add	22.50	
	For Lightweight Aggregate, ASTM C330, Add	78.75	
	For Up To 20, Add	19.63	
	For >20 To 50, Add	7.36	
	For >100 To 200, Deduct	-5.48	
	For >200 To 400, Deduct	-10.96	
	For >400, Deduct	-16.44	
03 31 13 00-0019	CY Concrete Pump, Place 3,000 PSI Concrete Continuous Footings.....	290.48	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-13.16	
	For 2,500 PSI Concrete, Deduct	-6.58	
	For 3,500 PSI Concrete, Add	12.19	
	For 3,750 PSI Concrete, Add	16.58	
	For 4,000 PSI Concrete, Add	20.96	
	For 4,500 PSI Concrete, Add	24.38	
	For 5,000 PSI Concrete, Add	27.79	
	For 6,000 PSI Concrete, Add	65.81	
	For White Cement Concrete, Add	29.25	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
	For High Early Strength, Type 3 ASTM C150, Add	24.38	
	For Lightweight Aggregate, ASTM C330, Add	85.31	
	For Up To 20, Add	18.69	
	For >20 To 50, Add	7.01	
	For >100 To 200, Deduct	-5.81	
	For >200 To 400, Deduct	-11.62	
	For >400, Deduct	-17.43	
03 31 13 00-0020	Place Concrete Spread Footings (03 31 13 00-0011)		
03 31 13 00-0021	CY Crane And Bucket, Place 3,000 PSI Concrete Spread Footings.....	412.31	
	For 2,000 PSI Concrete, Deduct	-12.15	
	For 2,500 PSI Concrete, Deduct	-6.08	
	For 3,500 PSI Concrete, Add	11.25	
	For 3,750 PSI Concrete, Add	15.30	
	For 4,000 PSI Concrete, Add	19.35	
	For 4,500 PSI Concrete, Add	22.50	
	For 5,000 PSI Concrete, Add	25.65	
	For 6,000 PSI Concrete, Add	60.75	
	For White Cement Concrete, Add	27.00	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
	For High Early Strength, Type 3 ASTM C150, Add	22.50	
	For Lightweight Aggregate, ASTM C330, Add	78.75	
	For Up To 20, Add	74.92	
	For >20 To 50, Add	28.10	
	For >100 To 200, Deduct	-8.25	
	For >200 To 400, Deduct	-16.49	
	For >400, Deduct	-24.74	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0022 CY Direct Chute, Place 3,000 PSI Concrete Spread Footings	307.81	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	33.12	
For >20 To 50, Add	12.42	
For >100 To 200, Deduct	-6.16	
For >200 To 400, Deduct	-12.31	
For >400, Deduct	-18.47	
03 31 13 00-0023 CY Concrete Pump, Place 3,000 PSI Concrete Spread Footings	322.62	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.16	
For 2,500 PSI Concrete, Deduct	-6.58	
For 3,500 PSI Concrete, Add	12.19	
For 3,750 PSI Concrete, Add	16.58	
For 4,000 PSI Concrete, Add	20.96	
For 4,500 PSI Concrete, Add	24.38	
For 5,000 PSI Concrete, Add	27.79	
For 6,000 PSI Concrete, Add	65.81	
For White Cement Concrete, Add	29.25	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
For High Early Strength, Type 3 ASTM C150, Add	24.38	
For Lightweight Aggregate, ASTM C330, Add	85.31	
For Up To 20, Add	31.55	
For >20 To 50, Add	11.83	
For >100 To 200, Deduct	-6.45	
For >200 To 400, Deduct	-12.90	
For >400, Deduct	-19.36	
03 31 13 00-0024 Place Concrete Mat Foundation (03 31 13 00-0011)		
03 31 13 00-0025 CY Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation	258.30	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	13.32	
For >20 To 50, Add	5.00	
For >100 To 200, Deduct	-5.17	
For >200 To 400, Deduct	-10.33	
For >400, Deduct	-15.50	
03 31 13 00-0026 CY Direct Chute, Place 3,000 PSI Concrete Mat Foundation	239.73	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	5.89	
For >20 To 50, Add	2.21	
For >100 To 200, Deduct	-4.79	
For >200 To 400, Deduct	-9.59	
For >400, Deduct	-14.38	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 31 13 00-0027	CY	Concrete Pump, Place 3,000 PSI Concrete Mat Foundation.....	256.02	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.16	
			For 2,500 PSI Concrete, Deduct	-6.58	
			For 3,500 PSI Concrete, Add	12.19	
			For 3,750 PSI Concrete, Add	16.58	
			For 4,000 PSI Concrete, Add	20.96	
			For 4,500 PSI Concrete, Add	24.38	
			For 5,000 PSI Concrete, Add	27.79	
			For 6,000 PSI Concrete, Add	65.81	
			For White Cement Concrete, Add	29.25	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
			For High Early Strength, Type 3 ASTM C150, Add	24.38	
			For Lightweight Aggregate, ASTM C330, Add	85.31	
			For Up To 20, Add	4.91	
			For >20 To 50, Add	1.84	
			For >100 To 200, Deduct	-5.12	
			For >200 To 400, Deduct	-10.24	
			For >400, Deduct	-15.36	
	03 31 13 00-0028		Place Concrete Grade Beams (03 31 13 00-0011)		
	03 31 13 00-0029	CY	Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	313.80	
			For 2,000 PSI Concrete, Deduct	-12.15	
			For 2,500 PSI Concrete, Deduct	-6.08	
			For 3,500 PSI Concrete, Add	11.25	
			For 3,750 PSI Concrete, Add	15.30	
			For 4,000 PSI Concrete, Add	19.35	
			For 4,500 PSI Concrete, Add	22.50	
			For 5,000 PSI Concrete, Add	25.65	
			For 6,000 PSI Concrete, Add	60.75	
			For White Cement Concrete, Add	27.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
			For High Early Strength, Type 3 ASTM C150, Add	22.50	
			For Lightweight Aggregate, ASTM C330, Add	78.75	
			For Up To 20, Add	35.52	
			For >20 To 50, Add	13.32	
			For >100 To 200, Deduct	-6.28	
			For >200 To 400, Deduct	-12.55	
			For >400, Deduct	-18.83	
	03 31 13 00-0030	CY	Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	264.25	
			For 2,000 PSI Concrete, Deduct	-12.15	
			For 2,500 PSI Concrete, Deduct	-6.08	
			For 3,500 PSI Concrete, Add	11.25	
			For 3,750 PSI Concrete, Add	15.30	
			For 4,000 PSI Concrete, Add	19.35	
			For 4,500 PSI Concrete, Add	22.50	
			For 5,000 PSI Concrete, Add	25.65	
			For 6,000 PSI Concrete, Add	60.75	
			For White Cement Concrete, Add	27.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
			For High Early Strength, Type 3 ASTM C150, Add	22.50	
			For Lightweight Aggregate, ASTM C330, Add	78.75	
			For Up To 20, Add	15.70	
			For >20 To 50, Add	5.89	
			For >100 To 200, Deduct	-5.29	
			For >200 To 400, Deduct	-10.57	
			For >400, Deduct	-15.86	
	03 31 13 00-0031	CY	Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	281.14	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.16	
			For 2,500 PSI Concrete, Deduct	-6.58	
			For 3,500 PSI Concrete, Add	12.19	
			For 3,750 PSI Concrete, Add	16.58	
			For 4,000 PSI Concrete, Add	20.96	
			For 4,500 PSI Concrete, Add	24.38	
			For 5,000 PSI Concrete, Add	27.79	
			For 6,000 PSI Concrete, Add	65.81	
			For White Cement Concrete, Add	29.25	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
			For High Early Strength, Type 3 ASTM C150, Add	24.38	
			For Lightweight Aggregate, ASTM C330, Add	85.31	
			For Up To 20, Add	14.96	
			For >20 To 50, Add	5.61	
			For >100 To 200, Deduct	-5.62	
			For >200 To 400, Deduct	-11.25	
			For >400, Deduct	-16.87	
	03 31 13 00-0032		Place Concrete Slab On Grade (03 31 13 00-0011)		



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0033 CY Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	315.89	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	36.36	
For >20 To 50, Add	13.63	
For >100 To 200, Deduct	-6.32	
For >200 To 400, Deduct	-12.64	
For >400, Deduct	-18.95	
03 31 13 00-0034 CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade	293.96	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	27.58	
For >20 To 50, Add	10.34	
For >100 To 200, Deduct	-5.88	
For >200 To 400, Deduct	-11.76	
For >400, Deduct	-17.64	
03 31 13 00-0035 CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade.....	265.18	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	16.07	
For >20 To 50, Add	6.03	
For >100 To 200, Deduct	-5.30	
For >200 To 400, Deduct	-10.61	
For >400, Deduct	-15.91	
03 31 13 00-0036 CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	255.48	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	12.19	
For >20 To 50, Add	4.57	
For >100 To 200, Deduct	-5.11	
For >200 To 400, Deduct	-10.22	
For >400, Deduct	-15.33	

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0037	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	277.23
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-13.16
		For 2,500 PSI Concrete, Deduct	-6.58
		For 3,500 PSI Concrete, Add	12.19
		For 3,750 PSI Concrete, Add	16.58
		For 4,000 PSI Concrete, Add	20.96
		For 4,500 PSI Concrete, Add	24.38
		For 5,000 PSI Concrete, Add	27.79
		For 6,000 PSI Concrete, Add	65.81
		For White Cement Concrete, Add	29.25
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69
		For High Early Strength, Type 3 ASTM C150, Add	24.38
		For Lightweight Aggregate, ASTM C330, Add	85.31
		For Up To 20, Add	13.39
		For >20 To 50, Add	5.02
		For >100 To 200, Deduct	-5.54
		For >200 To 400, Deduct	-11.09
		For >400, Deduct	-16.63
03 31 13 00-0038	CY	>6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade	269.15
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-13.16
		For 2,500 PSI Concrete, Deduct	-6.58
		For 3,500 PSI Concrete, Add	12.19
		For 3,750 PSI Concrete, Add	16.58
		For 4,000 PSI Concrete, Add	20.96
		For 4,500 PSI Concrete, Add	24.38
		For 5,000 PSI Concrete, Add	27.79
		For 6,000 PSI Concrete, Add	65.81
		For White Cement Concrete, Add	29.25
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69
		For High Early Strength, Type 3 ASTM C150, Add	24.38
		For Lightweight Aggregate, ASTM C330, Add	85.31
		For Up To 20, Add	10.16
		For >20 To 50, Add	3.81
		For >100 To 200, Deduct	-5.38
		For >200 To 400, Deduct	-10.77
		For >400, Deduct	-16.15
03 31 13 00-0039		Place Concrete Stairs <small>(03 31 13 00-0011)</small>	
03 31 13 00-0040	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs.....	633.91
		For 2,000 PSI Concrete, Deduct	-12.15
		For 2,500 PSI Concrete, Deduct	-6.08
		For 3,500 PSI Concrete, Add	11.25
		For 3,750 PSI Concrete, Add	15.30
		For 4,000 PSI Concrete, Add	19.35
		For 4,500 PSI Concrete, Add	22.50
		For 5,000 PSI Concrete, Add	25.65
		For 6,000 PSI Concrete, Add	60.75
		For White Cement Concrete, Add	27.00
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25
		For High Early Strength, Type 3 ASTM C150, Add	22.50
		For Lightweight Aggregate, ASTM C330, Add	78.75
		For Up To 20, Add	163.56
		For >20 To 50, Add	61.34
		For >100 To 200, Deduct	-12.68
		For >200 To 400, Deduct	-25.36
		For >400, Deduct	-38.03
03 31 13 00-0041	CY	Direct Chute, Place 3,000 PSI On Grade Concrete Stairs	405.80
		For 2,000 PSI Concrete, Deduct	-12.15
		For 2,500 PSI Concrete, Deduct	-6.08
		For 3,500 PSI Concrete, Add	11.25
		For 3,750 PSI Concrete, Add	15.30
		For 4,000 PSI Concrete, Add	19.35
		For 4,500 PSI Concrete, Add	22.50
		For 5,000 PSI Concrete, Add	25.65
		For 6,000 PSI Concrete, Add	60.75
		For White Cement Concrete, Add	27.00
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25
		For High Early Strength, Type 3 ASTM C150, Add	22.50
		For Lightweight Aggregate, ASTM C330, Add	78.75
		For Up To 20, Add	72.32
		For >20 To 50, Add	27.12
		For >100 To 200, Deduct	-8.12
		For >200 To 400, Deduct	-16.23
		For >400, Deduct	-24.35



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0042 CY Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs 394.43 Note: Excludes pumping equipment. <i>For 2,000 PSI Concrete, Deduct</i> -13.16 <i>For 2,500 PSI Concrete, Deduct</i> -6.58 <i>For 3,500 PSI Concrete, Add</i> 12.19 <i>For 3,750 PSI Concrete, Add</i> 16.58 <i>For 4,000 PSI Concrete, Add</i> 20.96 <i>For 4,500 PSI Concrete, Add</i> 24.38 <i>For 5,000 PSI Concrete, Add</i> 27.79 <i>For 6,000 PSI Concrete, Add</i> 65.81 <i>For White Cement Concrete, Add</i> 29.25 <i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i> 31.69 <i>For High Early Strength, Type 3 ASTM C150, Add</i> 24.38 <i>For Lightweight Aggregate, ASTM C330, Add</i> 85.31 <i>For Up To 20, Add</i> 60.27 <i>For >20 To 50, Add</i> 22.60 <i>For >100 To 200, Deduct</i> -7.89 <i>For >200 To 400, Deduct</i> -15.78 <i>For >400, Deduct</i> -23.67		
03 31 13 00-0043 Place Concrete Superstructure By Method Indicated (03 31 13 00-0010) See CSI section 03 37 16 00-0001 for concrete pump truck.		
03 31 13 00-0044 Place Elevated Concrete Beams (03 31 13 00-0043)		
03 31 13 00-0045 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams 446.99 <i>For 2,000 PSI Concrete, Deduct</i> -12.15 <i>For 2,500 PSI Concrete, Deduct</i> -6.08 <i>For 3,500 PSI Concrete, Add</i> 11.25 <i>For 3,750 PSI Concrete, Add</i> 15.30 <i>For 4,000 PSI Concrete, Add</i> 19.35 <i>For 4,500 PSI Concrete, Add</i> 22.50 <i>For 5,000 PSI Concrete, Add</i> 25.65 <i>For 6,000 PSI Concrete, Add</i> 60.75 <i>For White Cement Concrete, Add</i> 27.00 <i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i> 29.25 <i>For High Early Strength, Type 3 ASTM C150, Add</i> 22.50 <i>For Lightweight Aggregate, ASTM C330, Add</i> 78.75 <i>For Up To 20, Add</i> 88.80 <i>For >20 To 50, Add</i> 33.30 <i>For >100 To 200, Deduct</i> -8.94 <i>For >200 To 400, Deduct</i> -17.88 <i>For >400, Deduct</i> -26.82		
03 31 13 00-0046 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Beams 337.22 Note: Excludes pumping equipment. <i>For 2,000 PSI Concrete, Deduct</i> -13.16 <i>For 2,500 PSI Concrete, Deduct</i> -6.58 <i>For 3,500 PSI Concrete, Add</i> 12.19 <i>For 3,750 PSI Concrete, Add</i> 16.58 <i>For 4,000 PSI Concrete, Add</i> 20.96 <i>For 4,500 PSI Concrete, Add</i> 24.38 <i>For 5,000 PSI Concrete, Add</i> 27.79 <i>For 6,000 PSI Concrete, Add</i> 65.81 <i>For White Cement Concrete, Add</i> 29.25 <i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i> 31.69 <i>For High Early Strength, Type 3 ASTM C150, Add</i> 24.38 <i>For Lightweight Aggregate, ASTM C330, Add</i> 85.31 <i>For Up To 20, Add</i> 37.39 <i>For >20 To 50, Add</i> 14.02 <i>For >100 To 200, Deduct</i> -6.74 <i>For >200 To 400, Deduct</i> -13.49 <i>For >400, Deduct</i> -20.23		
03 31 13 00-0047 Place Elevated Concrete Slab (03 31 13 00-0043)		
03 31 13 00-0048 CY Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab 329.51 <i>For 2,000 PSI Concrete, Deduct</i> -12.15 <i>For 2,500 PSI Concrete, Deduct</i> -6.08 <i>For 3,500 PSI Concrete, Add</i> 11.25 <i>For 3,750 PSI Concrete, Add</i> 15.30 <i>For 4,000 PSI Concrete, Add</i> 19.35 <i>For 4,500 PSI Concrete, Add</i> 22.50 <i>For 5,000 PSI Concrete, Add</i> 25.65 <i>For 6,000 PSI Concrete, Add</i> 60.75 <i>For White Cement Concrete, Add</i> 27.00 <i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i> 29.25 <i>For High Early Strength, Type 3 ASTM C150, Add</i> 22.50 <i>For Lightweight Aggregate, ASTM C330, Add</i> 78.75 <i>For Up To 20, Add</i> 41.80 <i>For >20 To 50, Add</i> 15.68 <i>For >100 To 200, Deduct</i> -6.59 <i>For >200 To 400, Deduct</i> -13.18 <i>For >400, Deduct</i> -19.77		

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0049	CY	>6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	304.29
		<i>For 2,000 PSI Concrete, Deduct</i>	-12.15
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.08
		<i>For 3,500 PSI Concrete, Add</i>	11.25
		<i>For 3,750 PSI Concrete, Add</i>	15.30
		<i>For 4,000 PSI Concrete, Add</i>	19.35
		<i>For 4,500 PSI Concrete, Add</i>	22.50
		<i>For 5,000 PSI Concrete, Add</i>	25.65
		<i>For 6,000 PSI Concrete, Add</i>	60.75
		<i>For White Cement Concrete, Add</i>	27.00
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	29.25
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.50
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	78.75
		<i>For Up To 20, Add</i>	31.72
		<i>For >20 To 50, Add</i>	11.89
		<i>For >100 To 200, Deduct</i>	-6.09
		<i>For >200 To 400, Deduct</i>	-12.17
		<i>For >400, Deduct</i>	-18.26
03 31 13 00-0050	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab	287.76
		Note: Excludes pumping equipment.	
		<i>For 2,000 PSI Concrete, Deduct</i>	-13.16
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.58
		<i>For 3,500 PSI Concrete, Add</i>	12.19
		<i>For 3,750 PSI Concrete, Add</i>	16.58
		<i>For 4,000 PSI Concrete, Add</i>	20.96
		<i>For 4,500 PSI Concrete, Add</i>	24.38
		<i>For 5,000 PSI Concrete, Add</i>	27.79
		<i>For 6,000 PSI Concrete, Add</i>	65.81
		<i>For White Cement Concrete, Add</i>	29.25
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	31.69
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	24.38
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	85.31
		<i>For Up To 20, Add</i>	17.60
		<i>For >20 To 50, Add</i>	6.60
		<i>For >100 To 200, Deduct</i>	-5.76
		<i>For >200 To 400, Deduct</i>	-11.51
		<i>For >400, Deduct</i>	-17.27
03 31 13 00-0051	CY	>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab	277.14
		Note: Excludes pumping equipment.	
		<i>For 2,000 PSI Concrete, Deduct</i>	-13.16
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.58
		<i>For 3,500 PSI Concrete, Add</i>	12.19
		<i>For 3,750 PSI Concrete, Add</i>	16.58
		<i>For 4,000 PSI Concrete, Add</i>	20.96
		<i>For 4,500 PSI Concrete, Add</i>	24.38
		<i>For 5,000 PSI Concrete, Add</i>	27.79
		<i>For 6,000 PSI Concrete, Add</i>	65.81
		<i>For White Cement Concrete, Add</i>	29.25
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	31.69
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	24.38
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	85.31
		<i>For Up To 20, Add</i>	13.36
		<i>For >20 To 50, Add</i>	5.01
		<i>For >100 To 200, Deduct</i>	-5.54
		<i>For >200 To 400, Deduct</i>	-11.09
		<i>For >400, Deduct</i>	-16.63
03 31 13 00-0052		Place Concrete Columns <small>(03 31 13 00-0043)</small>	464.76
03 31 13 00-0053	CY	12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	464.76
		<i>For 2,000 PSI Concrete, Deduct</i>	-12.15
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.08
		<i>For 3,500 PSI Concrete, Add</i>	11.25
		<i>For 3,750 PSI Concrete, Add</i>	15.30
		<i>For 4,000 PSI Concrete, Add</i>	19.35
		<i>For 4,500 PSI Concrete, Add</i>	22.50
		<i>For 5,000 PSI Concrete, Add</i>	25.65
		<i>For 6,000 PSI Concrete, Add</i>	60.75
		<i>For White Cement Concrete, Add</i>	27.00
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	29.25
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.50
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	78.75
		<i>For Up To 20, Add</i>	95.90
		<i>For >20 To 50, Add</i>	35.96
		<i>For >100 To 200, Deduct</i>	-9.30
		<i>For >200 To 400, Deduct</i>	-18.59
		<i>For >400, Deduct</i>	-27.89



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0054 CY 18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	399.26	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	69.70	
For >20 To 50, Add	26.14	
For >100 To 200, Deduct	-7.99	
For >200 To 400, Deduct	-15.97	
For >400, Deduct	-23.96	
03 31 13 00-0055 CY 24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	352.42	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	50.97	
For >20 To 50, Add	19.11	
For >100 To 200, Deduct	-7.05	
For >200 To 400, Deduct	-14.10	
For >400, Deduct	-21.15	
03 31 13 00-0056 CY 36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	331.55	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	42.62	
For >20 To 50, Add	15.98	
For >100 To 200, Deduct	-6.63	
For >200 To 400, Deduct	-13.26	
For >400, Deduct	-19.89	
03 31 13 00-0057 CY 12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	344.70	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.16	
For 2,500 PSI Concrete, Deduct	-6.58	
For 3,500 PSI Concrete, Add	12.19	
For 3,750 PSI Concrete, Add	16.58	
For 4,000 PSI Concrete, Add	20.96	
For 4,500 PSI Concrete, Add	24.38	
For 5,000 PSI Concrete, Add	27.79	
For 6,000 PSI Concrete, Add	65.81	
For White Cement Concrete, Add	29.25	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
For High Early Strength, Type 3 ASTM C150, Add	24.38	
For Lightweight Aggregate, ASTM C330, Add	85.31	
For Up To 20, Add	40.38	
For >20 To 50, Add	15.14	
For >100 To 200, Deduct	-6.89	
For >200 To 400, Deduct	-13.79	
For >400, Deduct	-20.68	

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0058	CY	18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	317.13	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-13.16	
		For 2,500 PSI Concrete, Deduct	-6.58	
		For 3,500 PSI Concrete, Add	12.19	
		For 3,750 PSI Concrete, Add	16.58	
		For 4,000 PSI Concrete, Add	20.96	
		For 4,500 PSI Concrete, Add	24.38	
		For 5,000 PSI Concrete, Add	27.79	
		For 6,000 PSI Concrete, Add	65.81	
		For White Cement Concrete, Add	29.25	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
		For High Early Strength, Type 3 ASTM C150, Add	24.38	
		For Lightweight Aggregate, ASTM C330, Add	85.31	
		For Up To 20, Add	29.35	
		For >20 To 50, Add	11.01	
		For >100 To 200, Deduct	-6.34	
		For >200 To 400, Deduct	-12.69	
		For >400, Deduct	-19.03	
03 31 13 00-0059	CY	24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	297.40	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-13.16	
		For 2,500 PSI Concrete, Deduct	-6.58	
		For 3,500 PSI Concrete, Add	12.19	
		For 3,750 PSI Concrete, Add	16.58	
		For 4,000 PSI Concrete, Add	20.96	
		For 4,500 PSI Concrete, Add	24.38	
		For 5,000 PSI Concrete, Add	27.79	
		For 6,000 PSI Concrete, Add	65.81	
		For White Cement Concrete, Add	29.25	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
		For High Early Strength, Type 3 ASTM C150, Add	24.38	
		For Lightweight Aggregate, ASTM C330, Add	85.31	
		For Up To 20, Add	21.46	
		For >20 To 50, Add	8.05	
		For >100 To 200, Deduct	-5.95	
		For >200 To 400, Deduct	-11.90	
		For >400, Deduct	-17.84	
03 31 13 00-0060	CY	36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	288.61	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-13.16	
		For 2,500 PSI Concrete, Deduct	-6.58	
		For 3,500 PSI Concrete, Add	12.19	
		For 3,750 PSI Concrete, Add	16.58	
		For 4,000 PSI Concrete, Add	20.96	
		For 4,500 PSI Concrete, Add	24.38	
		For 5,000 PSI Concrete, Add	27.79	
		For 6,000 PSI Concrete, Add	65.81	
		For White Cement Concrete, Add	29.25	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
		For High Early Strength, Type 3 ASTM C150, Add	24.38	
		For Lightweight Aggregate, ASTM C330, Add	85.31	
		For Up To 20, Add	17.94	
		For >20 To 50, Add	6.73	
		For >100 To 200, Deduct	-5.77	
		For >200 To 400, Deduct	-11.54	
		For >400, Deduct	-17.32	

03 31 13 00-0061 Place Concrete Walls (03 31 13 00-0043)

03 31 13 00-0062	CY	Up To 8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	449.77	
		For 2,000 PSI Concrete, Deduct	-12.15	
		For 2,500 PSI Concrete, Deduct	-6.08	
		For 3,500 PSI Concrete, Add	11.25	
		For 3,750 PSI Concrete, Add	15.30	
		For 4,000 PSI Concrete, Add	19.35	
		For 4,500 PSI Concrete, Add	22.50	
		For 5,000 PSI Concrete, Add	25.65	
		For 6,000 PSI Concrete, Add	60.75	
		For White Cement Concrete, Add	27.00	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
		For High Early Strength, Type 3 ASTM C150, Add	22.50	
		For Lightweight Aggregate, ASTM C330, Add	78.75	
		For Up To 20, Add	89.91	
		For >20 To 50, Add	33.72	
		For >100 To 200, Deduct	-9.00	
		For >200 To 400, Deduct	-17.99	
		For >400, Deduct	-26.99	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0063 CY 12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	431.13	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	82.45	
For >20 To 50, Add	30.92	
For >100 To 200, Deduct	-8.62	
For >200 To 400, Deduct	-17.25	
For >400, Deduct	-25.87	
03 31 13 00-0064 CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	382.34	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	62.94	
For >20 To 50, Add	23.60	
For >100 To 200, Deduct	-7.65	
For >200 To 400, Deduct	-15.29	
For >400, Deduct	-22.94	
03 31 13 00-0065 CY Up To 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	324.36	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	39.74	
For >20 To 50, Add	14.90	
For >100 To 200, Deduct	-6.49	
For >200 To 400, Deduct	-12.97	
For >400, Deduct	-19.46	
03 31 13 00-0066 CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	304.50	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	31.80	
For >20 To 50, Add	11.93	
For >100 To 200, Deduct	-6.09	
For >200 To 400, Deduct	-12.18	
For >400, Deduct	-18.27	

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0067	CY	15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	294.56	
		<i>For 2,000 PSI Concrete, Deduct</i>	-12.15	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.08	
		<i>For 3,500 PSI Concrete, Add</i>	11.25	
		<i>For 3,750 PSI Concrete, Add</i>	15.30	
		<i>For 4,000 PSI Concrete, Add</i>	19.35	
		<i>For 4,500 PSI Concrete, Add</i>	22.50	
		<i>For 5,000 PSI Concrete, Add</i>	25.65	
		<i>For 6,000 PSI Concrete, Add</i>	60.75	
		<i>For White Cement Concrete, Add</i>	27.00	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	29.25	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.50	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	78.75	
		<i>For Up To 20, Add</i>	27.82	
		<i>For >20 To 50, Add</i>	10.43	
		<i>For >100 To 200, Deduct</i>	-5.89	
		<i>For >200 To 400, Deduct</i>	-11.78	
		<i>For >400, Deduct</i>	-17.67	
03 31 13 00-0068	CY	Up To 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	338.38	
		Note: Excludes pumping equipment.		
		<i>For 2,000 PSI Concrete, Deduct</i>	-13.16	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.58	
		<i>For 3,500 PSI Concrete, Add</i>	12.19	
		<i>For 3,750 PSI Concrete, Add</i>	16.58	
		<i>For 4,000 PSI Concrete, Add</i>	20.96	
		<i>For 4,500 PSI Concrete, Add</i>	24.38	
		<i>For 5,000 PSI Concrete, Add</i>	27.79	
		<i>For 6,000 PSI Concrete, Add</i>	65.81	
		<i>For White Cement Concrete, Add</i>	29.25	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	31.69	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	24.38	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	85.31	
		<i>For Up To 20, Add</i>	37.85	
		<i>For >20 To 50, Add</i>	14.19	
		<i>For >100 To 200, Deduct</i>	-6.77	
		<i>For >200 To 400, Deduct</i>	-13.54	
		<i>For >400, Deduct</i>	-20.30	
03 31 13 00-0069	CY	12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	319.45	
		Note: Excludes pumping equipment.		
		<i>For 2,000 PSI Concrete, Deduct</i>	-13.16	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.58	
		<i>For 3,500 PSI Concrete, Add</i>	12.19	
		<i>For 3,750 PSI Concrete, Add</i>	16.58	
		<i>For 4,000 PSI Concrete, Add</i>	20.96	
		<i>For 4,500 PSI Concrete, Add</i>	24.38	
		<i>For 5,000 PSI Concrete, Add</i>	27.79	
		<i>For 6,000 PSI Concrete, Add</i>	65.81	
		<i>For White Cement Concrete, Add</i>	29.25	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	31.69	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	24.38	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	85.31	
		<i>For Up To 20, Add</i>	30.28	
		<i>For >20 To 50, Add</i>	11.36	
		<i>For >100 To 200, Deduct</i>	-6.39	
		<i>For >200 To 400, Deduct</i>	-12.78	
		<i>For >400, Deduct</i>	-19.17	
03 31 13 00-0070	CY	15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	310.00	
		Note: Excludes pumping equipment.		
		<i>For 2,000 PSI Concrete, Deduct</i>	-13.16	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.58	
		<i>For 3,500 PSI Concrete, Add</i>	12.19	
		<i>For 3,750 PSI Concrete, Add</i>	16.58	
		<i>For 4,000 PSI Concrete, Add</i>	20.96	
		<i>For 4,500 PSI Concrete, Add</i>	24.38	
		<i>For 5,000 PSI Concrete, Add</i>	27.79	
		<i>For 6,000 PSI Concrete, Add</i>	65.81	
		<i>For White Cement Concrete, Add</i>	29.25	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	31.69	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	24.38	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	85.31	
		<i>For Up To 20, Add</i>	26.50	
		<i>For >20 To 50, Add</i>	9.94	
		<i>For >100 To 200, Deduct</i>	-6.20	
		<i>For >200 To 400, Deduct</i>	-12.40	
		<i>For >400, Deduct</i>	-18.60	

03 31 13 00-0071 Place Elevated Concrete Stairs (03 31 13 00-0043)



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0072 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs	679.40	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	181.76	
For >20 To 50, Add	68.16	
For >100 To 200, Deduct	-13.59	
For >200 To 400, Deduct	-27.18	
For >400, Deduct	-40.76	
03 31 13 00-0073 CY Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	425.88	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	80.35	
For >20 To 50, Add	30.13	
For >100 To 200, Deduct	-8.52	
For >200 To 400, Deduct	-17.04	
For >400, Deduct	-25.55	
03 31 13 00-0074 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	411.15	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.16	
For 2,500 PSI Concrete, Deduct	-6.58	
For 3,500 PSI Concrete, Add	12.19	
For 3,750 PSI Concrete, Add	16.58	
For 4,000 PSI Concrete, Add	20.96	
For 4,500 PSI Concrete, Add	24.38	
For 5,000 PSI Concrete, Add	27.79	
For 6,000 PSI Concrete, Add	65.81	
For White Cement Concrete, Add	29.25	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
For High Early Strength, Type 3 ASTM C150, Add	24.38	
For Lightweight Aggregate, ASTM C330, Add	85.31	
For Up To 20, Add	66.96	
For >20 To 50, Add	25.11	
For >100 To 200, Deduct	-8.22	
For >200 To 400, Deduct	-16.45	
For >400, Deduct	-24.67	
03 31 13 00-0075 Place Concrete Coping (03 31 13 00-0043)		
03 31 13 00-0076 CY Crane And Bucket, Place 3,000 PSI Concrete Coping	695.10	
For 2,000 PSI Concrete, Deduct	-12.15	
For 2,500 PSI Concrete, Deduct	-6.08	
For 3,500 PSI Concrete, Add	11.25	
For 3,750 PSI Concrete, Add	15.30	
For 4,000 PSI Concrete, Add	19.35	
For 4,500 PSI Concrete, Add	22.50	
For 5,000 PSI Concrete, Add	25.65	
For 6,000 PSI Concrete, Add	60.75	
For White Cement Concrete, Add	27.00	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
For High Early Strength, Type 3 ASTM C150, Add	22.50	
For Lightweight Aggregate, ASTM C330, Add	78.75	
For Up To 20, Add	188.04	
For >20 To 50, Add	70.52	
For >100 To 200, Deduct	-13.90	
For >200 To 400, Deduct	-27.80	
For >400, Deduct	-41.71	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0077	CY		Direct Chute, Place 3,000 PSI Concrete Coping	424.53	
			<i>For 2,000 PSI Concrete, Deduct</i>	-12.15	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.08	
			<i>For 3,500 PSI Concrete, Add</i>	11.25	
			<i>For 3,750 PSI Concrete, Add</i>	15.30	
			<i>For 4,000 PSI Concrete, Add</i>	19.35	
			<i>For 4,500 PSI Concrete, Add</i>	22.50	
			<i>For 5,000 PSI Concrete, Add</i>	25.65	
			<i>For 6,000 PSI Concrete, Add</i>	60.75	
			<i>For White Cement Concrete, Add</i>	27.00	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	29.25	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.50	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	78.75	
			<i>For Up To 20, Add</i>	79.81	
			<i>For >20 To 50, Add</i>	29.93	
			<i>For >100 To 200, Deduct</i>	-8.49	
			<i>For >200 To 400, Deduct</i>	-16.98	
			<i>For >400, Deduct</i>	-25.47	
03 31 13 00-0078	CY		Concrete Pump, Place 3,000 PSI Concrete Coping	545.98	
			Note: Excludes pumping equipment.		
			<i>For 2,000 PSI Concrete, Deduct</i>	-13.16	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.58	
			<i>For 3,500 PSI Concrete, Add</i>	12.19	
			<i>For 3,750 PSI Concrete, Add</i>	16.58	
			<i>For 4,000 PSI Concrete, Add</i>	20.96	
			<i>For 4,500 PSI Concrete, Add</i>	24.38	
			<i>For 5,000 PSI Concrete, Add</i>	27.79	
			<i>For 6,000 PSI Concrete, Add</i>	65.81	
			<i>For White Cement Concrete, Add</i>	29.25	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	31.69	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	24.38	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	85.31	
			<i>For Up To 20, Add</i>	120.89	
			<i>For >20 To 50, Add</i>	45.33	
			<i>For >100 To 200, Deduct</i>	-10.92	
			<i>For >200 To 400, Deduct</i>	-21.84	
			<i>For >400, Deduct</i>	-32.76	
03 31 13 00-0079			Concrete Carts <small>(03 31 13 00-0010)</small>		
			Note: Used to place concrete were necessary.		
03 31 13 00-0080	CY		50' Haul, Non Motorized, Concrete Buggy	24.12	
03 31 13 00-0081	CY		150' Haul, Non Motorized, Concrete Buggy	32.29	
03 31 13 00-0082	CY		250' Haul, Non Motorized, Concrete Buggy	43.07	
03 31 13 00-0083	CY		50' Haul, Motorized, Concrete Buggy	10.88	
03 31 13 00-0084	CY		150' Haul, Motorized, Concrete Buggy	14.58	
03 31 13 00-0085	CY		250' Haul, Motorized, Concrete Buggy	19.44	
03 31 13 00-0086			Delivery Fee For Small Concrete Purchases (Short Load) <small>(03 31 13)</small>		
03 31 13 00-0087	CY		Delivery Fee For Small Concrete Purchases (Short Load) Per CY For Each CY Less Than 9 CY	31.99	
			Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.		
03 31 13 00-0088			Equipment Pads <small>(03 31 13)</small>		
03 31 13 00-0089			Small Concrete Equipment Housekeeping Pad Assemblies <small>(03 31 13 00-0088)</small>		
			Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.		
03 31 13 00-0090	SF		4" Equipment Pad With Welded Wire Reinforcement	19.14	
			<i>For >5 To 20 Pads, Deduct</i>	-2.20	
			<i>For >20 To 50 Pads, Deduct</i>	-4.03	
			<i>For >50 Pads, Deduct</i>	-5.87	
03 31 13 00-0091	SF		4" Equipment Pad With Rebar	23.44	
			<i>For >5 To 20 Pads, Deduct</i>	-2.54	
			<i>For >20 To 50 Pads, Deduct</i>	-4.66	
			<i>For >50 Pads, Deduct</i>	-6.77	
03 31 13 00-0092	SF		6" Equipment Pad With Rebar	29.73	
			<i>For >5 To 20 Pads, Deduct</i>	-3.19	
			<i>For >20 To 50 Pads, Deduct</i>	-5.85	
			<i>For >50 Pads, Deduct</i>	-8.51	
03 31 13 00-0093	SF		8" Equipment Pad With Rebar	37.43	
			<i>For >5 To 20 Pads, Deduct</i>	-4.06	
			<i>For >20 To 50 Pads, Deduct</i>	-7.44	
			<i>For >50 Pads, Deduct</i>	-10.82	
03 31 13 00-0094			Delivery Fee For Concrete, Per Truck Load <small>(03 31 13)</small>		
03 31 13 00-0095	EA		Concrete Delivery Fee, Per Truck	40.00	
			Note: To be added to all concrete leaving concrete yard		

03 31 16 Lightweight Structural Concrete (03 31)



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 31 16 00-0001	Low Density Cellular / Foam Concrete Fill <small>(03 31 16)</small>	
03 31 16 00-0002	CY Lightweight Low Density Pervious Cellular/Foam Concrete, 100 To 120 PCF Density Range	279.26

03 35 Concrete Finishing (03 30)

03 35 13 High-Tolerance Concrete Floor Finishing (03 35)

03 35 13 00-0001 Floor Finishes (03 35 13)

Note: Task is for final finish type and includes all required prior finishes.

03 35 13 00-0002	SF Screed, Concrete Floor Finish	0.96
	<i>For Up To 100, Add</i>	1.92
	<i>For >100 To 250, Add</i>	0.48
	<i>For >250 To 500, Add</i>	0.24
	<i>For >5,000 To 10,000, Deduct</i>	-0.05
	<i>For >10,000, Deduct</i>	-0.10
03 35 13 00-0003	SF Darby, Concrete Floor Finish	1.16
	<i>For Up To 100, Add</i>	2.32
	<i>For >100 To 250, Add</i>	0.58
	<i>For >250 To 500, Add</i>	0.29
	<i>For >5,000 To 10,000, Deduct</i>	-0.06
	<i>For >10,000, Deduct</i>	-0.12
03 35 13 00-0004	SF Broom, Concrete Floor Finish	1.27
	<i>For Up To 100, Add</i>	2.54
	<i>For >100 To 250, Add</i>	0.64
	<i>For >250 To 500, Add</i>	0.32
	<i>For >5,000 To 10,000, Deduct</i>	-0.06
	<i>For >10,000, Deduct</i>	-0.13
03 35 13 00-0005	SF Final Float, Concrete Floor Finish	1.49
	<i>For Up To 100, Add</i>	2.98
	<i>For >100 To 250, Add</i>	0.75
	<i>For >250 To 500, Add</i>	0.37
	<i>For >5,000 To 10,000, Deduct</i>	-0.07
	<i>For >10,000, Deduct</i>	-0.15
03 35 13 00-0006	SF Steel Trowel, Concrete Floor Finish	1.67
	<i>For Up To 100, Add</i>	3.34
	<i>For >100 To 250, Add</i>	0.84
	<i>For >250 To 500, Add</i>	0.42
	<i>For >5,000 To 10,000, Deduct</i>	-0.08
	<i>For >10,000, Deduct</i>	-0.17
03 35 13 00-0007	SF Concrete Floor Finishes, Machine	1.49
	<i>For Up To 100, Add</i>	2.98
	<i>For >100 To 250, Add</i>	0.75
	<i>For >250 To 500, Add</i>	0.37
	<i>For >5,000 To 10,000, Deduct</i>	-0.07
	<i>For >10,000, Deduct</i>	-0.15

03 35 16 Heavy-Duty Concrete Floor Finishing (03 35)

03 35 16 00-0001 Shake On Floor Hardeners (03 35 16)

03 35 16 00-0002	SF 0.3 LB/SF, Metallic, Shake On Floor Hardener	1.30
03 35 16 00-0003	SF 0.65 LB/SF, Metallic, Shake On Floor Hardener	2.09
03 35 16 00-0004	SF 0.3 LB/SF, Non Metallic, Shake On Floor Hardener	1.21
03 35 16 00-0005	SF 0.65 LB/SF, Non Metallic, Shake On Floor Hardener	1.54

03 35 19 Colored Concrete Finishing (03 35)

03 35 19 00-0001 Concrete Surface Treatments (03 35 19)

03 35 19 00-0002	SF Acrylic Latex Bonding Agent	0.53
03 35 19 00-0003	SF Epoxy Resin Bonding Agent	3.15
03 35 19 00-0004	SF Clear Acrylic Sealer, Hardener And Dustproof	0.37
03 35 19 00-0005	SF Colored Acrylic Sealer, Hardener And Dustproof	0.39

03 35 23 Exposed Aggregate Concrete Finishing (03 35)

03 35 23 00-0001 Exposed Aggregate, Concrete Finish (03 35 23)

03 35 23 00-0002	SF Exposed Aggregate, Concrete Floor Finish	3.15
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03 35 26 Grooved Concrete Surface Finishing (03 35)

03 35 26 00-0001 Ramp, Grooved Concrete Surface Finishing (03 35 26)

03 35 26 00-0002	SF Ramp, Grooved Concrete Surface Finishing	4.54
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03 35 29 Tooled Concrete Finishing (03 35)

03 35 29 00-0001 Solid Board Concrete Finish (03 35 29)

03 35 29 00-0002	SF Solid Board Concrete, Non Uniform Finish, 1 Use, Add To Formwork	17.56
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03	03 Concrete
	03 30 Cast-In-Place Concrete
	03 35 Concrete Finishing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 35 29 00-0003	Marblecrete Finishes <small>(03 35 29)</small>	
03 35 29 00-0004	SF 2" Thick Marblecrete And Finish	52.69
03 35 29 00-0005	SF 4" Thick Marblecrete And Finish	70.54

03 35 33	Stamped Concrete Finishing <small>(03 35)</small>	
03 35 33 00-0001	Stamped Concrete Finishes <small>(03 35 33)</small>	
03 35 33 00-0002	SF Up To 2,500 SF Stamped Concrete Finish	3.88
03 35 33 00-0003	SF >2,500 To 10,000 SF Stamped Concrete Finish	3.52
03 35 33 00-0004	SF >10,000 SF Stamped Concrete Finish	3.36

03 35 43	Polished Concrete Finishing <small>(03 35)</small>	
03 35 43 00-0001	Concrete Floor Polishing System <small>(03 35 43)</small>	
Note: The floor polishing system below may consist of one or multiple applications of each task/step below depending on existing conditions and desired results.		
03 35 43 00-0002	SF Mechanically Grind Concrete Floor With 40 Grit Metal Bonded Diamond Wheels	1.83
	<i>For Up To 500, Add</i>	3.47
	<i>For >500 To 1,000, Add</i>	3.22
	<i>For >1,000 To 2,500, Add</i>	2.13
	<i>For >2,500 To 4,000, Add</i>	1.11
	<i>For >8,000 To 15,000, Deduct</i>	-0.43
	<i>For >15,000 To 25,000, Deduct</i>	-0.55
	<i>For >25,000, Deduct</i>	-0.77
03 35 43 00-0003	SF Mechanically Grind Concrete Floor With 80 Grit Metal Bonded Diamond Wheels	1.46
	<i>For Up To 500, Add</i>	2.75
	<i>For >500 To 1,000, Add</i>	2.56
	<i>For >1,000 To 2,500, Add</i>	1.69
	<i>For >2,500 To 4,000, Add</i>	0.88
	<i>For >8,000 To 15,000, Deduct</i>	-0.34
	<i>For >15,000 To 25,000, Deduct</i>	-0.43
	<i>For >25,000, Deduct</i>	-0.61
03 35 43 00-0004	SF Mechanically Grind Concrete Floor With 100 Grit Resin Bonded Diamond Wheels	1.23
	<i>For Up To 500, Add</i>	2.31
	<i>For >500 To 1,000, Add</i>	2.14
	<i>For >1,000 To 2,500, Add</i>	1.42
	<i>For >2,500 To 4,000, Add</i>	0.74
	<i>For >8,000 To 15,000, Deduct</i>	-0.29
	<i>For >15,000 To 25,000, Deduct</i>	-0.36
	<i>For >25,000, Deduct</i>	-0.51
03 35 43 00-0005	SF Mechanically Grind Concrete Floor With 150 Grit Metal Bonded Diamond Wheels	1.14
	<i>For Up To 500, Add</i>	2.13
	<i>For >500 To 1,000, Add</i>	1.98
	<i>For >1,000 To 2,500, Add</i>	1.31
	<i>For >2,500 To 4,000, Add</i>	0.68
	<i>For >8,000 To 15,000, Deduct</i>	-0.26
	<i>For >15,000 To 25,000, Deduct</i>	-0.34
	<i>For >25,000, Deduct</i>	-0.47
03 35 43 00-0006	SF Mechanically Grind Concrete Floor With 200 Grit Resin Bonded Diamond Wheels	1.06
	<i>For Up To 500, Add</i>	1.98
	<i>For >500 To 1,000, Add</i>	1.84
	<i>For >1,000 To 2,500, Add</i>	1.21
	<i>For >2,500 To 4,000, Add</i>	0.63
	<i>For >8,000 To 15,000, Deduct</i>	-0.24
	<i>For >15,000 To 25,000, Deduct</i>	-0.31
	<i>For >25,000, Deduct</i>	-0.44
03 35 43 00-0007	SF Mechanically Grind Concrete Floor With 400 Grit Resin Bonded Diamond Wheels	1.06
	<i>For Up To 500, Add</i>	1.98
	<i>For >500 To 1,000, Add</i>	1.84
	<i>For >1,000 To 2,500, Add</i>	1.21
	<i>For >2,500 To 4,000, Add</i>	0.63
	<i>For >8,000 To 15,000, Deduct</i>	-0.24
	<i>For >15,000 To 25,000, Deduct</i>	-0.31
	<i>For >25,000, Deduct</i>	-0.44
03 35 43 00-0008	SF Mechanically Grind Concrete Floor With 800 Grit Resin Bonded Diamond Wheels	1.06
	<i>For Up To 500, Add</i>	1.98
	<i>For >500 To 1,000, Add</i>	1.84
	<i>For >1,000 To 2,500, Add</i>	1.21
	<i>For >2,500 To 4,000, Add</i>	0.63
	<i>For >8,000 To 15,000, Deduct</i>	-0.24
	<i>For >15,000 To 25,000, Deduct</i>	-0.31
	<i>For >25,000, Deduct</i>	-0.44
03 35 43 00-0009	SF Mechanically Grind Concrete Floor With 1,500 Grit Resin Bonded Diamond Wheels	1.06
	<i>For Up To 500, Add</i>	1.98
	<i>For >500 To 1,000, Add</i>	1.84
	<i>For >1,000 To 2,500, Add</i>	1.21
	<i>For >2,500 To 4,000, Add</i>	0.63
	<i>For >8,000 To 15,000, Deduct</i>	-0.24
	<i>For >15,000 To 25,000, Deduct</i>	-0.31
	<i>For >25,000, Deduct</i>	-0.44



Concrete	03	03
Cast-In-Place Concrete	03 30	
Concrete Finishing	03 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 43 00-0010 SF High Speed Burnish Concrete Floor With Diamond Pads.....	0.26	
For Up To 500, Add	0.43	
For >500 To 1,000, Add	0.40	
For >1,000 To 2,500, Add	0.26	
For >2,500 To 4,000, Add	0.14	
For >8,000 To 15,000, Deduct	-0.05	
For >15,000 To 25,000, Deduct	-0.07	
For >25,000, Deduct	-0.09	
03 35 43 00-0011 SF Apply 1 Coat Of Concrete Densifier For Concrete Floor Polishing	0.50	
For Up To 500, Add	0.52	
For >500 To 1,000, Add	0.49	
For >1,000 To 2,500, Add	0.32	
For >2,500 To 4,000, Add	0.17	
For >8,000 To 15,000, Deduct	-0.06	
For >15,000 To 25,000, Deduct	-0.08	
For >25,000, Deduct	-0.12	
03 35 43 00-0012 SF Apply 2 Coats Of Concrete Densifier With Stain Protector For Concrete Floor Polishing.....	0.86	
For Up To 500, Add	0.80	
For >500 To 1,000, Add	0.74	
For >1,000 To 2,500, Add	0.49	
For >2,500 To 4,000, Add	0.25	
For >8,000 To 15,000, Deduct	-0.10	
For >15,000 To 25,000, Deduct	-0.13	
For >25,000, Deduct	-0.18	
03 35 43 00-0013 SF Concrete Floor Polishing Final Clean Up.....	0.14	
For Up To 500, Add	0.27	
For >500 To 1,000, Add	0.25	
For >1,000 To 2,500, Add	0.17	
For >2,500 To 4,000, Add	0.09	
For >8,000 To 15,000, Deduct	-0.03	
For >15,000 To 25,000, Deduct	-0.04	
For >25,000, Deduct	-0.06	
03 35 63 Slip-Resistant Floor Finishing (03 35)		
03 35 63 00-0001 Slip-Resistant Floor Finishing (03 35 63)		
03 35 63 00-0002 SF Aluminum Oxide Abrasive Floor Finish, 0.25 LB/SF	1.54	
For Up To 100, Add	1.84	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.23	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000, Deduct	-0.09	
03 35 63 00-0003 SF Silicone Carbide Abrasive Floor Finish 0.25 LB/SF	1.21	
For Up To 100, Add	1.84	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.23	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000, Deduct	-0.09	
03 35 66 Acid Etch Floor Finishing (03 35)		
03 35 66 00-0001 Acid Etch Floor (03 35 66)		
03 35 66 00-0002 SF Concrete Floor Finishes, Etch With Acid And Rinse	1.15	
For Up To 100, Add	0.88	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000, Deduct	-0.04	
03 35 83 Concrete Wall Finishing (03 35)		
03 35 83 00-0001 Wall Finishes (03 35 83)		
03 35 83 00-0002 SF Burlap Rub With Grout, New Concrete Wall Finishes.....	1.74	
For Up To 100, Add	3.22	
For >100 To 250, Add	0.81	
For >250 To 500, Add	0.40	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000, Deduct	-0.16	
03 35 83 00-0003 SF 1/16" Float Finish, New Concrete Wall Finishes	2.61	
For Up To 100, Add	4.84	
For >100 To 250, Add	1.21	
For >250 To 500, Add	0.61	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000, Deduct	-0.24	
03 35 83 00-0004 SF Etch With Acid And Rinse, New Concrete Wall Finishes	1.24	
For Up To 100, Add	1.06	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.13	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000, Deduct	-0.05	

03 Concrete**03 30 Cast-In-Place Concrete****03 35 Concrete Finishing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0005	SF		Bush Hammer Green Concrete, New Concrete Wall Finishes.....	5.18	
			<i>For Up To 100, Add</i>	10.24	
			<i>For >100 To 250, Add</i>	2.56	
			<i>For >250 To 500, Add</i>	1.28	
			<i>For >5,000 To 10,000, Deduct</i>	-0.26	
			<i>For >10,000, Deduct</i>	-0.51	
03 35 83 00-0006	SF		Bush Hammer Cured Concrete, New Concrete Wall Finishes.....	8.04	
			<i>For Up To 100, Add</i>	15.82	
			<i>For >100 To 250, Add</i>	3.96	
			<i>For >250 To 500, Add</i>	1.98	
			<i>For >5,000 To 10,000, Deduct</i>	-0.40	
			<i>For >10,000, Deduct</i>	-0.79	
03 35 83 00-0007	SF		Break Ties And Patch, New Concrete Wall Finishes	1.03	
			<i>For Up To 100, Add</i>	1.74	
			<i>For >100 To 250, Add</i>	0.44	
			<i>For >250 To 500, Add</i>	0.22	
			<i>For >5,000 To 10,000, Deduct</i>	-0.04	
			<i>For >10,000, Deduct</i>	-0.09	
03 35 83 00-0008	SF		Carborundum Dry Rub, New Concrete Wall Finishes	3.38	
			<i>For Up To 100, Add</i>	6.44	
			<i>For >100 To 250, Add</i>	1.61	
			<i>For >250 To 500, Add</i>	0.81	
			<i>For >5,000 To 10,000, Deduct</i>	-0.16	
			<i>For >10,000, Deduct</i>	-0.32	
03 35 83 00-0009	SF		Carborundum Wet Rub, New Concrete Wall Finishes	5.13	
			<i>For Up To 100, Add</i>	9.94	
			<i>For >100 To 250, Add</i>	2.49	
			<i>For >250 To 500, Add</i>	1.24	
			<i>For >5,000 To 10,000, Deduct</i>	-0.25	
			<i>For >10,000, Deduct</i>	-0.50	
03 35 83 00-0010	SF		Up To 1/4" Penetration Sand Blasting, New Concrete Wall Finishes.....	5.13	
			Note: 4.5 Lbs of sand or abrasive material per SF		
			<i>For Up To 100, Add</i>	8.34	
			<i>For >100 To 250, Add</i>	2.09	
			<i>For >250 To 500, Add</i>	1.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.21	
			<i>For >10,000, Deduct</i>	-0.42	
03 35 83 00-0011	SF		>1/4" To 1/2" Penetration Sand Blasting, New Concrete Wall Finishes.....	10.28	
			Note: 9 Lbs of sand abrasive material per SF		
			<i>For Up To 100, Add</i>	16.70	
			<i>For >100 To 250, Add</i>	4.18	
			<i>For >250 To 500, Add</i>	2.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.42	
			<i>For >10,000, Deduct</i>	-0.84	

03 37 Specialty Placed Concrete (03 30)

Note: Includes gun finish. Not to be used for pumping concrete tasks. See CSI section 03 35 00 00-0000 for finishing.

03 37 13 Shotcrete (03 37)**03 37 13 00-0001 Shotcrete, Fiber Reinforced, Structural Repair** (03 37 13)

03 37 13 00-0002	SF		1" Thick Shotcrete, Fiber Reinforced	3.31	
			<i>For Up To 25, Add</i>	0.63	
			<i>For >25 To 50, Add</i>	0.36	
			<i>For >50 To 150, Add</i>	0.15	
03 37 13 00-0003	SF		2" Thick Shotcrete, Fiber Reinforced	6.21	
			<i>For Up To 25, Add</i>	1.15	
			<i>For >25 To 50, Add</i>	0.66	
			<i>For >50 To 150, Add</i>	0.26	
03 37 13 00-0004	SF		3" Thick Shotcrete, Fiber Reinforced	8.80	
			<i>For Up To 25, Add</i>	1.59	
			<i>For >25 To 50, Add</i>	0.92	
			<i>For >50 To 150, Add</i>	0.36	
03 37 13 00-0005	SF		4" Thick Shotcrete, Fiber Reinforced	11.08	
			<i>For Up To 25, Add</i>	1.96	
			<i>For >25 To 50, Add</i>	1.12	
			<i>For >50 To 150, Add</i>	0.43	
03 37 13 00-0006	SF		6" Thick Shotcrete, Fiber Reinforced	15.00	
			<i>For Up To 25, Add</i>	2.54	
			<i>For >25 To 50, Add</i>	1.44	
			<i>For >50 To 150, Add</i>	0.52	

03 37 13 00-0007 Gunite (Dry Mix Shotcrete), Sprayed (03 37 13)

See CSI section 03 22 11 00-0001 for wire mesh reinforcing.

03 37 13 00-0008	SF		1" Thick Gunite (Dry Mix Shotcrete), Sprayed	3.62	
			<i>For Radius Or Irregular Surface, Add</i>	1.08	
			<i>For Up To 25, Add</i>	0.77	
			<i>For >25 To 50, Add</i>	0.45	
			<i>For >50 To 150, Add</i>	0.20	
03 37 13 00-0009	SF		2" Thick Gunite (Dry Mix Shotcrete), Sprayed	6.67	
			<i>For Radius Or Irregular Surface, Add</i>	1.94	
			<i>For Up To 25, Add</i>	1.39	
			<i>For >25 To 50, Add</i>	0.82	
			<i>For >50 To 150, Add</i>	0.36	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Specialty Placed Concrete	03 37	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 13 00-0010 SF 3" Thick Gunite (Dry Mix Shotcrete), Sprayed	9.29	
For Radius Or Irregular Surface, Add	2.62	
For Up To 25, Add	1.91	
For >25 To 50, Add	1.12	
For >50 To 150, Add	0.49	
03 37 13 00-0011 SF 4" Thick Gunite (Dry Mix Shotcrete), Sprayed	11.50	
For Radius Or Irregular Surface, Add	3.14	
For Up To 25, Add	2.33	
For >25 To 50, Add	1.36	
For >50 To 150, Add	0.59	
03 37 13 00-0012 SF 5" Thick Gunite (Dry Mix Shotcrete), Sprayed	13.40	
For Radius Or Irregular Surface, Add	3.53	
For Up To 25, Add	2.66	
For >25 To 50, Add	1.55	
For >50 To 150, Add	0.66	
03 37 13 00-0013 SF 6" Thick Gunite (Dry Mix Shotcrete), Sprayed	15.02	
For Radius Or Irregular Surface, Add	3.81	
For Up To 25, Add	2.93	
For >25 To 50, Add	1.70	
For >50 To 150, Add	0.71	
03 37 13 00-0014 SF 8" Thick Gunite (Dry Mix Shotcrete), Sprayed	18.75	
For Radius Or Irregular Surface, Add	4.57	
For Up To 25, Add	3.59	
For >25 To 50, Add	2.08	
For >50 To 150, Add	0.86	
03 37 13 00-0015 SF 10" Thick Gunite (Dry Mix Shotcrete), Sprayed	22.02	
For Radius Or Irregular Surface, Add	5.14	
For Up To 25, Add	4.13	
For >25 To 50, Add	2.39	
For >50 To 150, Add	0.96	
03 37 13 00-0016 SF 12" Thick Gunite (Dry Mix Shotcrete), Sprayed	24.87	
For Radius Or Irregular Surface, Add	5.55	
For Up To 25, Add	4.57	
For >25 To 50, Add	2.63	
For >50 To 150, Add	1.04	

03 37 16 Pumped Concrete (03 37)

03 37 16 00-0001 Concrete Pumping With Boom Truck (03 37 16)

Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.

03 37 16 00-0002 HR 55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating)	233.55
03 37 16 00-0003 HR 70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	254.51
03 37 16 00-0004 HR 90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	330.23
03 37 16 00-0005 HR 105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	377.36
03 37 16 00-0006 HR 120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	426.00
03 37 16 00-0007 HR 135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	529.01
03 37 16 00-0008 HR 148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	590.47
03 37 16 00-0009 HR 170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating)	739.33
03 37 16 00-0010 HR 35 CY/HR, 66 HP Trailer Mounted Concrete Pump	166.34

Note: Includes hoses

03 39 Concrete Curing (03 39)

03 39 13 Water Concrete Curing (03 39)

03 39 13 00-0001 Water Concrete Curing (03 39 13)

03 39 13 00-0002 SF Water Based Curing, Sealing, Hardening And Dustproofing Compound	0.34
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Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.

03 39 23 Membrane Concrete Curing (03 39)

03 39 23 23 Sheet Membrane Concrete Curing (03 39 23)

03 39 23 23-0001 Warm Weather Concrete Curing Blankets (03 39 23 23)

03 39 23 23-0002 CSF Warm Weather Concrete Curing Blankets	37.20
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03 39 23 23-0003 Cold Weather Concrete Curing Blankets (03 39 23 23)

03 39 23 23-0004 CSF Electric, Cold Weather Concrete Curing Blanket	296.54
03 39 23 23-0005 CSF Non-Electric, Cold Weather Concrete Curing Blanket	36.72

03 50 Cast Decks and Underlayment (03)

03 51 Cast Roof Decks (03 50)

03	03 Concrete
	03 50 Cast Decks and Underlayment
	03 51 Cast Roof Decks



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 51 13 Cementitious Wood Fiber Decks (03 51)

03 51 13 00-0001	Cement Fiber Tongue And Groove Planks (03 51 13)		
03 51 13 00-0002	SF 1" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.54	
03 51 13 00-0003	SF 1-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.74	
03 51 13 00-0004	SF 2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.96	
03 51 13 00-0005	SF 2-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	5.68	
03 51 13 00-0006	SF 3" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	6.46	
03 51 13 00-0007	SF 3-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	7.35	
03 51 13 00-0008	SF 4" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	8.45	

03 51 16 Gypsum Concrete Roof Decks (03 51)

03 51 16 00-0001	Class A Gypsum Fill Concrete Deck (03 51 16)		
03 51 16 00-0002	SF 2" Thick Precast Gypsum Fill Concrete Deck, Class A	10.78	0.55
03 51 16 00-0003	SF 2-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A	13.36	0.64
03 51 16 00-0004	SF 3" Thick Precast Gypsum Fill Concrete Deck, Class A	15.96	0.73
03 51 16 00-0005	SF 3-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A	18.57	0.82
03 51 16 00-0006	SF 4" Thick Precast Gypsum Fill Concrete Deck, Class A	21.21	0.92

03 51 16 00-0007 Form Board For Lightweight Deck (03 51 16)

03 51 16 00-0008	SF Gypsum Deck Form Board, 1/2" Drywall For Lightweight Deck	2.16	
03 51 16 00-0009	SF Gypsum Deck Form Board, 1" Mineral Fiber Board For Lightweight Deck	2.82	
03 51 16 00-0010	SF Gypsum Deck Form Board, 1-1/2" Mineral Fiber Board For Lightweight Deck	5.59	
03 51 16 00-0011	SF Gypsum Deck Form Board, 1" Cementitious Fiber Board For Lightweight Deck	2.38	0.62
03 51 16 00-0012	SF Gypsum Deck Form Board, 1-1/2" Cementitious Fiber Board For Lightweight Deck	2.86	0.62
03 51 16 00-0013	SF Gypsum Deck Form Board, 1" Glass Fiber Board For Lightweight Deck	3.13	0.62
03 51 16 00-0014	SF Gypsum Deck Form Board, 1-1/2" Glass Fiber Board For Lightweight Deck	3.83	0.62

03 51 16 00-0015 Gypsum Plank (03 51 16)

03 51 16 00-0016	SF 2" Thick, Insulating Concrete Gypsum Plank, Roof Deck	4.71	
03 51 16 00-0017	SF 3" Thick, Insulating Concrete Gypsum Plank, Roof Deck	6.36	

03 53 Concrete Topping (03 50)

Note: Installed over new or existing concrete.

03 53 14 Granolithic Concrete Topping (03 53)

03 53 14 00-0001 Granolithic Topping Laid After (03 53 14)

Note: Using 1:1:1-1/2 mix.

03 53 14 00-0002	SF 1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.28	
03 53 14 00-0003	SF 1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.70	
03 53 14 00-0004	SF 2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	6.07	

03 53 19 Concrete Overlayment (03 53)

03 53 19 00-0001 Integral Topping Including Hard Trowel Finish (03 53 19)

Note: Using 1:1:2 mix.

03 53 19 00-0002	SF 3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.54	
03 53 19 00-0003	SF 1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.92	
03 53 19 00-0004	SF 3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	3.47	
03 53 19 00-0005	SF 1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	4.16	
03 53 19 00-0006	SF 2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	6.08	
03 53 19 00-0007	SF 2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	5.43	
03 53 19 00-0008	SF 3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	6.14	

03 54 Cast Underlayment (03 50)

Note: Includes primer. Excludes sandblasting existing smooth finished concrete surface (where necessary).

03 54 16 Hydraulic Cement Underlayment (03 54)

03 54 16 00-0001 Self Leveling Cementitious Underlayment For Floors (03 54 16)

Note: Includes primer.

03 54 16 00-0002	SF 1/8" Thick Self Leveling Cementitious Underlayment For Floors	2.08	
	Note: Including Surface Preparation		
	For Up To 100 SF, Add	0.14	
	For >100 To 250 SF, Add	0.07	
03 54 16 00-0003	SF 1/4" Thick Self Leveling Cementitious Underlayment For Floors	3.67	
	Note: Including Surface Preparation		
	For Up To 100 SF, Add	0.14	
	For >100 To 250 SF, Add	0.07	
03 54 16 00-0004	SF 3/8" Thick Self Leveling Cementitious Underlayment For Floors	4.74	
	Note: Including Surface Preparation		
	For Up To 100 SF, Add	0.14	
	For >100 To 250 SF, Add	0.07	



Concrete	03	03
Cast Decks and Underlayment	03 50	
Cast Underlayment	03 54	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 54 16 00-0005 SF 1/2" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation For Up To 100 SF, Add For >100 To 250 SF, Add	6.86 0.14 0.07	
03 54 16 00-0006 SF 5/8" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation For Up To 100 SF, Add For >100 To 250 SF, Add	8.14 0.14 0.07	
03 54 16 00-0007 SF 3/4" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation For Up To 100 SF, Add For >100 To 250 SF, Add	10.10 0.16 0.08	
03 54 16 00-0008 SF 1" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation For Up To 100 SF, Add For >100 To 250 SF, Add	13.28 0.16 0.08	
03 54 16 00-0009 SF 1-1/4" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation For Up To 100 SF, Add For >100 To 250 SF, Add	17.58 0.18 0.09	
03 54 16 00-0010 SF 1-1/2" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation For Up To 100 SF, Add For >100 To 250 SF, Add	19.72 0.18 0.09	
03 54 16 00-0011 SF 1-3/4" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation For Up To 100 SF, Add For >100 To 250 SF, Add	26.19 0.22 0.11	

03 60 Grouting (03)

03 61 Cementitious Grouting (03 60)

Note: 1 part cement to 3 parts sand by volume.

03 61 16 Cementitious Flowable Grout (03 61)

03 61 16 00-0001 Cementitious Flowable Grout <small>(03 61 16)</small>	
03 61 16 00-0002 CY Cementitious Flowable Grout	520.78

03 62 Non-Shrink Grouting (03 60)

03 62 13 Non-Metallic Non-Shrink Grouting (03 62)

03 62 13 00-0001 Fluid Type, Non-Metallic Non-Shrink Grouting For Bases <small>(03 62 13)</small>	
03 62 13 00-0002 SF 1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	28.01
03 62 13 00-0003 SF 2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	42.98
03 62 13 00-0004 Non-Metallic Non-Shrink Grouting For Bases <small>(03 62 13)</small>	
03 62 13 00-0005 SF 1" Deep, Non-Metallic Non-Shrink Grout For Bases	43.58
03 62 13 00-0006 SF 2" Deep, Non-Metallic Non-Shrink Grout For Bases	71.76
03 62 13 00-0007 Non-Metallic Non-Shrink Grouting For Joints <small>(03 62 13)</small>	
03 62 13 00-0008 1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints <small>(03 62 13 00-0007)</small>	
03 62 13 00-0009 LF 4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.20
03 62 13 00-0010 LF 6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.92
03 62 13 00-0011 LF 8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	3.85
03 62 13 00-0012 1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints <small>(03 62 13 00-0007)</small>	
03 62 13 00-0013 LF 4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	3.34
03 62 13 00-0014 LF 6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	4.49
03 62 13 00-0015 LF 8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	5.98

03 62 16 Metallic Non-Shrink Grouting (03 62)

03 62 16 00-0001 Metallic Non-Shrink Grouting For Bases <small>(03 62 16)</small>	
03 62 16 00-0002 SF 1" Deep, Metallic Non-Shrink Grout For Bases	35.45
03 62 16 00-0003 SF 2" Deep, Metallic Non-Shrink Grout For Bases	56.01
03 62 16 00-0004 Metallic Non-Shrink Grouting For Joints <small>(03 62 16)</small>	
03 62 16 00-0005 1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints <small>(03 62 16 00-0004)</small>	
03 62 16 00-0006 LF 4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	1.69
03 62 16 00-0007 LF 6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	2.15
03 62 16 00-0008 LF 8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	2.86

03	03 Concrete
	03 60 Grouting
	03 62 Non-Shrink Grouting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 62 16 00-0009	1" Joint Thickness, Metallic Non-Shrink Grout For Joints <small>(03 62 16 00-0004)</small>		
03 62 16 00-0010	LF 4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	2.35	
03 62 16 00-0011	LF 6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	2.96	
03 62 16 00-0012	LF 8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	3.97	

03 64 Injection Grouting (03 60)

Note: By volume of void filled. Includes injection ports.

03 64 23 Epoxy Injection Grouting (03 64)

03 64 23 00-0001	Pressure Injected Epoxy Grout <small>(03 64 23)</small>		
03 64 23 00-0002	CF Pressure Injected Epoxy Grout.....	1,285.62	
	<i>For >4, Deduct</i>		-136.09

03 64 26 Cementitious Injection Grouting (03 64)

03 64 26 00-0001	Pressure Injected Cementitious Grout <small>(03 64 26)</small>		
03 64 26 00-0002	CF Pressure Injected Cementitious Grout.....	224.34	
	<i>For >4, Deduct</i>		-58.38

END OF SECTION 03



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 Metals

05 05 Common Work Results for Metals (05)

05 05 19 Post-Installed Concrete Anchors (05 05)

See CSI section 03 15 19 00-0000 for cast-in concrete anchors.

05 05 19 00-0001	Concrete And Masonry Anchors <small>(05 05 19)</small>		
05 05 19 00-0002	Expansion Anchors <small>(05 05 19 00-0001)</small> Note: Includes drilling.		
05 05 19 00-0003	Wedge Expansion Bolt Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0004	Zinc Plated Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small> Note: Includes nut and washer.		
05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.55	
	For >10 To 50, Deduct	-0.60	
	For >50 To 100, Deduct	-1.21	
	For >100, Deduct	-2.42	
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.65	
	For >10 To 50, Deduct	-0.60	
	For >50 To 100, Deduct	-1.21	
	For >100, Deduct	-2.43	
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	13.02	
	For >10 To 50, Deduct	-0.61	
	For >50 To 100, Deduct	-1.25	
	For >100, Deduct	-2.49	
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.39	
	For >10 To 50, Deduct	-0.73	
	For >50 To 100, Deduct	-1.48	
	For >100, Deduct	-2.95	
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.46	
	For >10 To 50, Deduct	-0.73	
	For >50 To 100, Deduct	-1.48	
	For >100, Deduct	-2.96	
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.48	
	For >10 To 50, Deduct	-0.73	
	For >50 To 100, Deduct	-1.48	
	For >100, Deduct	-2.96	
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.75	
	For >10 To 50, Deduct	-0.73	
	For >50 To 100, Deduct	-1.48	
	For >100, Deduct	-2.97	
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.20	
	For >10 To 50, Deduct	-1.03	
	For >50 To 100, Deduct	-2.11	
	For >100, Deduct	-4.21	
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.26	
	For >10 To 50, Deduct	-1.03	
	For >50 To 100, Deduct	-2.11	
	For >100, Deduct	-4.22	
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.37	
	For >10 To 50, Deduct	-1.03	
	For >50 To 100, Deduct	-2.11	
	For >100, Deduct	-4.22	
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.67	
	For >10 To 50, Deduct	-1.03	
	For >50 To 100, Deduct	-2.12	
	For >100, Deduct	-4.24	
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	23.09	
	For >10 To 50, Deduct	-1.03	
	For >50 To 100, Deduct	-2.13	
	For >100, Deduct	-4.26	
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.59	
	For >10 To 50, Deduct	-1.28	
	For >50 To 100, Deduct	-2.63	
	For >100, Deduct	-5.26	
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.68	
	For >10 To 50, Deduct	-1.28	
	For >50 To 100, Deduct	-2.63	
	For >100, Deduct	-5.26	
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.87	
	For >10 To 50, Deduct	-1.28	
	For >50 To 100, Deduct	-2.64	
	For >100, Deduct	-5.27	
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	29.24	
	For >10 To 50, Deduct	-1.28	
	For >50 To 100, Deduct	-2.65	
	For >100, Deduct	-5.29	
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	29.61	
	For >10 To 50, Deduct	-1.28	
	For >50 To 100, Deduct	-2.65	
	For >100, Deduct	-5.31	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	32.53	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-2.73	
			<i>For >100, Deduct</i>	-5.45	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	35.03	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-2.79	
			<i>For >100, Deduct</i>	-5.58	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	34.42	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.14	
			<i>For >100, Deduct</i>	-6.28	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	34.50	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.14	
			<i>For >100, Deduct</i>	-6.28	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	34.95	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.15	
			<i>For >100, Deduct</i>	-6.30	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	35.49	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.17	
			<i>For >100, Deduct</i>	-6.33	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	36.10	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.18	
			<i>For >100, Deduct</i>	-6.36	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	38.45	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.24	
			<i>For >100, Deduct</i>	-6.48	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	41.56	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.32	
			<i>For >100, Deduct</i>	-6.64	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	45.08	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.41	
			<i>For >100, Deduct</i>	-6.81	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	44.54	
			<i>For >10 To 50, Deduct</i>	-1.65	
			<i>For >50 To 100, Deduct</i>	-3.59	
			<i>For >100, Deduct</i>	-7.17	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	46.39	
			<i>For >10 To 50, Deduct</i>	-1.65	
			<i>For >50 To 100, Deduct</i>	-3.63	
			<i>For >100, Deduct</i>	-7.26	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	48.84	
			<i>For >10 To 50, Deduct</i>	-1.65	
			<i>For >50 To 100, Deduct</i>	-3.69	
			<i>For >100, Deduct</i>	-7.39	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	55.53	
			<i>For >10 To 50, Deduct</i>	-2.13	
			<i>For >50 To 100, Deduct</i>	-4.59	
			<i>For >100, Deduct</i>	-9.17	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	59.01	
			<i>For >10 To 50, Deduct</i>	-2.13	
			<i>For >50 To 100, Deduct</i>	-4.67	
			<i>For >100, Deduct</i>	-9.35	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	62.46	
			<i>For >10 To 50, Deduct</i>	-2.13	
			<i>For >50 To 100, Deduct</i>	-4.76	
			<i>For >100, Deduct</i>	-9.52	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	72.14	
			<i>For >10 To 50, Deduct</i>	-2.73	
			<i>For >50 To 100, Deduct</i>	-5.90	
			<i>For >100, Deduct</i>	-11.80	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	74.62	
			<i>For >10 To 50, Deduct</i>	-2.73	
			<i>For >50 To 100, Deduct</i>	-5.96	
			<i>For >100, Deduct</i>	-11.92	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.61	
			<i>For >10 To 50, Deduct</i>	-0.60	
			<i>For >50 To 100, Deduct</i>	-1.24	
			<i>For >100, Deduct</i>	-2.47	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.00	
			<i>For >10 To 50, Deduct</i>	-0.60	
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100, Deduct</i>	-2.49	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043	EA			1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.55	
				<i>For >10 To 50, Deduct</i>	-0.61	
				<i>For >50 To 100, Deduct</i>	-1.28	
				<i>For >100, Deduct</i>	-2.57	
05 05 19 00-0044	EA			3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.33	
				<i>For >10 To 50, Deduct</i>	-0.73	
				<i>For >50 To 100, Deduct</i>	-1.52	
				<i>For >100, Deduct</i>	-3.05	
05 05 19 00-0045	EA			3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.66	
				<i>For >10 To 50, Deduct</i>	-0.73	
				<i>For >50 To 100, Deduct</i>	-1.53	
				<i>For >100, Deduct</i>	-3.07	
05 05 19 00-0046	EA			3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.89	
				<i>For >10 To 50, Deduct</i>	-0.73	
				<i>For >50 To 100, Deduct</i>	-1.54	
				<i>For >100, Deduct</i>	-3.08	
05 05 19 00-0047	EA			3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.69	
				<i>For >10 To 50, Deduct</i>	-0.73	
				<i>For >50 To 100, Deduct</i>	-1.58	
				<i>For >100, Deduct</i>	-3.17	
05 05 19 00-0048	EA			1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.50	
				<i>For >10 To 50, Deduct</i>	-1.03	
				<i>For >50 To 100, Deduct</i>	-2.21	
				<i>For >100, Deduct</i>	-4.43	
05 05 19 00-0049	EA			1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	27.12	
				<i>For >10 To 50, Deduct</i>	-1.03	
				<i>For >50 To 100, Deduct</i>	-2.23	
				<i>For >100, Deduct</i>	-4.46	
05 05 19 00-0050	EA			1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	27.48	
				<i>For >10 To 50, Deduct</i>	-1.03	
				<i>For >50 To 100, Deduct</i>	-2.24	
				<i>For >100, Deduct</i>	-4.48	
05 05 19 00-0051	EA			1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	29.12	
				<i>For >10 To 50, Deduct</i>	-1.03	
				<i>For >50 To 100, Deduct</i>	-2.28	
				<i>For >100, Deduct</i>	-4.56	
05 05 19 00-0052	EA			1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.58	
				<i>For >10 To 50, Deduct</i>	-1.03	
				<i>For >50 To 100, Deduct</i>	-2.34	
				<i>For >100, Deduct</i>	-4.68	
05 05 19 00-0053	EA			5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	37.32	
				<i>For >10 To 50, Deduct</i>	-1.28	
				<i>For >50 To 100, Deduct</i>	-2.85	
				<i>For >100, Deduct</i>	-5.69	
05 05 19 00-0054	EA			5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	38.92	
				<i>For >10 To 50, Deduct</i>	-1.28	
				<i>For >50 To 100, Deduct</i>	-2.89	
				<i>For >100, Deduct</i>	-5.77	
05 05 19 00-0055	EA			5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	40.66	
				<i>For >10 To 50, Deduct</i>	-1.28	
				<i>For >50 To 100, Deduct</i>	-2.93	
				<i>For >100, Deduct</i>	-5.86	
05 05 19 00-0056	EA			5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	42.96	
				<i>For >10 To 50, Deduct</i>	-1.28	
				<i>For >50 To 100, Deduct</i>	-2.99	
				<i>For >100, Deduct</i>	-5.98	
05 05 19 00-0057	EA			5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	53.07	
				<i>For >10 To 50, Deduct</i>	-1.28	
				<i>For >50 To 100, Deduct</i>	-3.24	
				<i>For >100, Deduct</i>	-6.48	
05 05 19 00-0058	EA			3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	44.54	
				<i>For >10 To 50, Deduct</i>	-1.52	
				<i>For >50 To 100, Deduct</i>	-3.39	
				<i>For >100, Deduct</i>	-6.78	
05 05 19 00-0059	EA			3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	47.80	
				<i>For >10 To 50, Deduct</i>	-1.52	
				<i>For >50 To 100, Deduct</i>	-3.47	
				<i>For >100, Deduct</i>	-6.95	
05 05 19 00-0060	EA			3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.58	
				<i>For >10 To 50, Deduct</i>	-1.52	
				<i>For >50 To 100, Deduct</i>	-3.54	
				<i>For >100, Deduct</i>	-7.08	
05 05 19 00-0061	EA			3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.92	
				<i>For >10 To 50, Deduct</i>	-1.52	
				<i>For >50 To 100, Deduct</i>	-3.55	
				<i>For >100, Deduct</i>	-7.10	
05 05 19 00-0062	EA			3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	53.53	
				<i>For >10 To 50, Deduct</i>	-1.52	
				<i>For >50 To 100, Deduct</i>	-3.62	
				<i>For >100, Deduct</i>	-7.23	
05 05 19 00-0063	EA			3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	60.31	
				<i>For >10 To 50, Deduct</i>	-1.52	
				<i>For >50 To 100, Deduct</i>	-3.79	
				<i>For >100, Deduct</i>	-7.57	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	69.87	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-4.03	
			<i>For >100, Deduct</i>	-8.05	
05 05 19 00-0065	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	70.67	
			<i>For >10 To 50, Deduct</i>	-1.65	
			<i>For >50 To 100, Deduct</i>	-4.24	
			<i>For >100, Deduct</i>	-8.48	
05 05 19 00-0066	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	101.80	
			<i>For >10 To 50, Deduct</i>	-2.13	
			<i>For >50 To 100, Deduct</i>	-5.74	
			<i>For >100, Deduct</i>	-11.49	
05 05 19 00-0067	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	115.93	
			<i>For >10 To 50, Deduct</i>	-2.13	
			<i>For >50 To 100, Deduct</i>	-6.10	
			<i>For >100, Deduct</i>	-12.19	
05 05 19 00-0068			316 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0069	EA		1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.94	
			<i>For >10 To 50, Deduct</i>	-0.60	
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100, Deduct</i>	-2.49	
05 05 19 00-0070	EA		1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.69	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.29	
			<i>For >100, Deduct</i>	-2.58	
05 05 19 00-0071	EA		3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.40	
			<i>For >10 To 50, Deduct</i>	-0.73	
			<i>For >50 To 100, Deduct</i>	-1.55	
			<i>For >100, Deduct</i>	-3.10	
05 05 19 00-0072	EA		3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.97	
			<i>For >10 To 50, Deduct</i>	-0.73	
			<i>For >50 To 100, Deduct</i>	-1.57	
			<i>For >100, Deduct</i>	-3.13	
05 05 19 00-0073	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.11	
			<i>For >10 To 50, Deduct</i>	-0.73	
			<i>For >50 To 100, Deduct</i>	-1.57	
			<i>For >100, Deduct</i>	-3.14	
05 05 19 00-0074	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.82	
			<i>For >10 To 50, Deduct</i>	-0.73	
			<i>For >50 To 100, Deduct</i>	-1.64	
			<i>For >100, Deduct</i>	-3.27	
05 05 19 00-0075	EA		1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	29.10	
			<i>For >10 To 50, Deduct</i>	-1.03	
			<i>For >50 To 100, Deduct</i>	-2.28	
			<i>For >100, Deduct</i>	-4.56	
05 05 19 00-0076	EA		1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	30.67	
			<i>For >10 To 50, Deduct</i>	-1.03	
			<i>For >50 To 100, Deduct</i>	-2.32	
			<i>For >100, Deduct</i>	-4.64	
05 05 19 00-0077	EA		1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	33.53	
			<i>For >10 To 50, Deduct</i>	-1.03	
			<i>For >50 To 100, Deduct</i>	-2.39	
			<i>For >100, Deduct</i>	-4.78	
05 05 19 00-0078	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.24	
			<i>For >10 To 50, Deduct</i>	-1.03	
			<i>For >50 To 100, Deduct</i>	-2.41	
			<i>For >100, Deduct</i>	-4.81	
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	46.08	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-3.07	
			<i>For >100, Deduct</i>	-6.13	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	46.94	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-3.09	
			<i>For >100, Deduct</i>	-6.18	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	56.80	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.70	
			<i>For >100, Deduct</i>	-7.40	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	60.37	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.79	
			<i>For >100, Deduct</i>	-7.57	
05 05 19 00-0083			Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	24.57	
			<i>For >10 To 50, Deduct</i>	-1.03	
			<i>For >50 To 100, Deduct</i>	-2.17	
			<i>For >100, Deduct</i>	-4.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085 EA 1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	25.60	
For >10 To 50, Deduct	-1.03	
For >50 To 100, Deduct	-2.19	
For >100, Deduct	-4.38	
05 05 19 00-0086 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	26.62	
For >10 To 50, Deduct	-1.03	
For >50 To 100, Deduct	-2.22	
For >100, Deduct	-4.43	
05 05 19 00-0087 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	27.14	
For >10 To 50, Deduct	-1.03	
For >50 To 100, Deduct	-2.23	
For >100, Deduct	-4.46	
05 05 19 00-0088 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	32.90	
For >10 To 50, Deduct	-1.28	
For >50 To 100, Deduct	-2.74	
For >100, Deduct	-5.47	
05 05 19 00-0089 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	31.67	
For >10 To 50, Deduct	-1.28	
For >50 To 100, Deduct	-2.71	
For >100, Deduct	-5.41	
05 05 19 00-0090 EA 3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	41.86	
For >10 To 50, Deduct	-1.52	
For >50 To 100, Deduct	-3.32	
For >100, Deduct	-6.65	
05 05 19 00-0091 EA 3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	42.99	
For >10 To 50, Deduct	-1.52	
For >50 To 100, Deduct	-3.35	
For >100, Deduct	-6.71	
05 05 19 00-0092 EA 3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	48.54	
For >10 To 50, Deduct	-1.52	
For >50 To 100, Deduct	-3.49	
For >100, Deduct	-6.98	
05 05 19 00-0093 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	54.46	
For >10 To 50, Deduct	-2.13	
For >50 To 100, Deduct	-4.56	
For >100, Deduct	-9.12	
05 05 19 00-0094 EA 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	57.66	
For >10 To 50, Deduct	-2.13	
For >50 To 100, Deduct	-4.64	
For >100, Deduct	-9.28	
05 05 19 00-0095 EA 1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	60.82	
For >10 To 50, Deduct	-2.13	
For >50 To 100, Deduct	-4.72	
For >100, Deduct	-9.44	
 05 05 19 00-0096 Concrete Sleeve Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0097 Zinc Plated Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0096)</small>		
Note: Includes nut and washer.		
05 05 19 00-0098 EA 1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.66	
For >10 To 50, Deduct	-0.61	
For >50 To 100, Deduct	-1.23	
For >100, Deduct	-2.47	
05 05 19 00-0099 EA 1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.79	
For >10 To 50, Deduct	-0.61	
For >50 To 100, Deduct	-1.24	
For >100, Deduct	-2.47	
05 05 19 00-0100 EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.95	
For >10 To 50, Deduct	-0.61	
For >50 To 100, Deduct	-1.24	
For >100, Deduct	-2.48	
05 05 19 00-0101 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	13.33	
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.59	
05 05 19 00-0102 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	13.45	
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.60	
05 05 19 00-0103 EA 3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.10	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-1.47	
For >100, Deduct	-2.93	
05 05 19 00-0104 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.32	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-1.47	
For >100, Deduct	-2.95	
05 05 19 00-0105 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.54	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-1.48	
For >100, Deduct	-2.96	
05 05 19 00-0106 EA 1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.69	
For >10 To 50, Deduct	-1.03	
For >50 To 100, Deduct	-2.09	
For >100, Deduct	-4.18	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.97	
			<i>For >10 To 50, Deduct</i>	-1.03	
			<i>For >50 To 100, Deduct</i>	-2.10	
			<i>For >100, Deduct</i>	-4.20	
05 05 19 00-0108	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	22.22	
			<i>For >10 To 50, Deduct</i>	-1.03	
			<i>For >50 To 100, Deduct</i>	-2.10	
			<i>For >100, Deduct</i>	-4.21	
05 05 19 00-0109	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	22.51	
			<i>For >10 To 50, Deduct</i>	-1.03	
			<i>For >50 To 100, Deduct</i>	-2.11	
			<i>For >100, Deduct</i>	-4.22	
05 05 19 00-0110	EA		5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	27.13	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-2.59	
			<i>For >100, Deduct</i>	-5.18	
05 05 19 00-0111	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	27.56	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-2.60	
			<i>For >100, Deduct</i>	-5.21	
05 05 19 00-0112	EA		5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	27.88	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-2.61	
			<i>For >100, Deduct</i>	-5.22	
05 05 19 00-0113	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	28.80	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-2.63	
			<i>For >100, Deduct</i>	-5.27	
05 05 19 00-0114	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	33.06	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.10	
			<i>For >100, Deduct</i>	-6.21	
05 05 19 00-0115	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	33.85	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.12	
			<i>For >100, Deduct</i>	-6.25	
05 05 19 00-0116	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	34.57	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.14	
			<i>For >100, Deduct</i>	-6.28	
05 05 19 00-0117	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	35.71	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.17	
			<i>For >100, Deduct</i>	-6.34	
05 05 19 00-0118			304/18-8 Stainless Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0096)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0119	EA		1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	14.27	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.27	
			<i>For >100, Deduct</i>	-2.55	
05 05 19 00-0120	EA		3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	18.37	
			<i>For >10 To 50, Deduct</i>	-0.73	
			<i>For >50 To 100, Deduct</i>	-1.55	
			<i>For >100, Deduct</i>	-3.10	
05 05 19 00-0121	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	19.89	
			<i>For >10 To 50, Deduct</i>	-0.73	
			<i>For >50 To 100, Deduct</i>	-1.59	
			<i>For >100, Deduct</i>	-3.17	
05 05 19 00-0122	EA		1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	27.16	
			<i>For >10 To 50, Deduct</i>	-1.03	
			<i>For >50 To 100, Deduct</i>	-2.23	
			<i>For >100, Deduct</i>	-4.46	
05 05 19 00-0123	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	29.90	
			<i>For >10 To 50, Deduct</i>	-1.03	
			<i>For >50 To 100, Deduct</i>	-2.30	
			<i>For >100, Deduct</i>	-4.59	
05 05 19 00-0124	EA		5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	40.41	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-2.92	
			<i>For >100, Deduct</i>	-5.85	
05 05 19 00-0125			Concrete Strike Anchors <small>(05 05 19 00-0002)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0126	EA		1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	13.30	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100, Deduct</i>	-2.50	
05 05 19 00-0127	EA		1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	13.53	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100, Deduct</i>	-2.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128 EA 5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	14.13	
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.32	
<i>For >100, Deduct</i>	-2.63	
05 05 19 00-0129 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	15.06	
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.34	
<i>For >100, Deduct</i>	-2.68	
05 05 19 00-0130 EA 3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor.....	16.11	
<i>For >10 To 50, Deduct</i>	-0.73	
<i>For >50 To 100, Deduct</i>	-1.49	
<i>For >100, Deduct</i>	-2.99	
05 05 19 00-0131 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor.....	16.80	
<i>For >10 To 50, Deduct</i>	-0.73	
<i>For >50 To 100, Deduct</i>	-1.51	
<i>For >100, Deduct</i>	-3.02	
05 05 19 00-0132 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor.....	17.34	
<i>For >10 To 50, Deduct</i>	-0.73	
<i>For >50 To 100, Deduct</i>	-1.52	
<i>For >100, Deduct</i>	-3.05	
05 05 19 00-0133 EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	23.41	
<i>For >10 To 50, Deduct</i>	-1.03	
<i>For >50 To 100, Deduct</i>	-2.13	
<i>For >100, Deduct</i>	-4.27	
05 05 19 00-0134 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor.....	23.83	
<i>For >10 To 50, Deduct</i>	-1.03	
<i>For >50 To 100, Deduct</i>	-2.14	
<i>For >100, Deduct</i>	-4.29	
05 05 19 00-0135 EA 1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	25.05	
<i>For >10 To 50, Deduct</i>	-1.03	
<i>For >50 To 100, Deduct</i>	-2.18	
<i>For >100, Deduct</i>	-4.35	
05 05 19 00-0136 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor.....	26.63	
<i>For >10 To 50, Deduct</i>	-1.03	
<i>For >50 To 100, Deduct</i>	-2.21	
<i>For >100, Deduct</i>	-4.43	
05 05 19 00-0137 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	30.79	
<i>For >10 To 50, Deduct</i>	-1.28	
<i>For >50 To 100, Deduct</i>	-2.68	
<i>For >100, Deduct</i>	-5.37	
05 05 19 00-0138 EA 5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	32.25	
<i>For >10 To 50, Deduct</i>	-1.28	
<i>For >50 To 100, Deduct</i>	-2.72	
<i>For >100, Deduct</i>	-5.44	
05 05 19 00-0139 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor.....	33.53	
<i>For >10 To 50, Deduct</i>	-1.28	
<i>For >50 To 100, Deduct</i>	-2.75	
<i>For >100, Deduct</i>	-5.50	
05 05 19 00-0140 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor.....	39.13	
<i>For >10 To 50, Deduct</i>	-1.52	
<i>For >50 To 100, Deduct</i>	-3.26	
<i>For >100, Deduct</i>	-6.51	
05 05 19 00-0141 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor.....	40.50	
<i>For >10 To 50, Deduct</i>	-1.52	
<i>For >50 To 100, Deduct</i>	-3.29	
<i>For >100, Deduct</i>	-6.58	
 05 05 19 00-0142 Multi-Set Drop-In Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0143 Zinc Plated Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0144 EA 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	17.59	
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-1.72	
<i>For >100, Deduct</i>	-3.43	
05 05 19 00-0145 EA 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	21.50	
<i>For >10 To 50, Deduct</i>	-1.04	
<i>For >50 To 100, Deduct</i>	-2.09	
<i>For >100, Deduct</i>	-4.19	
05 05 19 00-0146 EA 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	26.07	
<i>For >10 To 50, Deduct</i>	-1.22	
<i>For >50 To 100, Deduct</i>	-2.49	
<i>For >100, Deduct</i>	-4.97	
05 05 19 00-0147 EA 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	29.42	
<i>For >10 To 50, Deduct</i>	-1.34	
<i>For >50 To 100, Deduct</i>	-2.75	
<i>For >100, Deduct</i>	-5.50	
05 05 19 00-0148 EA 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	34.96	
<i>For >10 To 50, Deduct</i>	-1.53	
<i>For >50 To 100, Deduct</i>	-3.17	
<i>For >100, Deduct</i>	-6.33	
 05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0150 EA 1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	20.86	
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-1.80	
For >100, Deduct	-3.59	
05 05 19 00-0151 EA 3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	27.63	
For >10 To 50, Deduct	-1.04	
For >50 To 100, Deduct	-2.25	
For >100, Deduct	-4.49	
05 05 19 00-0152 EA 1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	34.24	
For >10 To 50, Deduct	-1.22	
For >50 To 100, Deduct	-2.69	
For >100, Deduct	-5.38	
05 05 19 00-0153 EA 5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	42.57	
For >10 To 50, Deduct	-1.34	
For >50 To 100, Deduct	-3.08	
For >100, Deduct	-6.16	
05 05 19 00-0154 EA 3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	57.56	
For >10 To 50, Deduct	-1.53	
For >50 To 100, Deduct	-3.73	
For >100, Deduct	-7.46	
05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0156 EA 1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	12.85	
For >10 To 50, Deduct	-0.61	
For >50 To 100, Deduct	-1.24	
For >100, Deduct	-2.48	
05 05 19 00-0157 EA 5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	13.69	
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.61	
05 05 19 00-0158 EA 3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	15.49	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-1.48	
For >100, Deduct	-2.95	
05 05 19 00-0159 EA 1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	22.51	
For >10 To 50, Deduct	-1.03	
For >50 To 100, Deduct	-2.11	
For >100, Deduct	-4.22	
05 05 19 00-0160 EA 5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	30.61	
For >10 To 50, Deduct	-1.28	
For >50 To 100, Deduct	-2.68	
For >100, Deduct	-5.36	
05 05 19 00-0161 EA 3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	36.85	
For >10 To 50, Deduct	-1.52	
For >50 To 100, Deduct	-3.20	
For >100, Deduct	-6.40	
05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)		
Note: Excludes lag bolt and washer.		
05 05 19 00-0163 EA 1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	12.91	
For >10 To 50, Deduct	-0.61	
For >50 To 100, Deduct	-1.24	
For >100, Deduct	-2.48	
05 05 19 00-0164 EA 5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	15.36	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-1.47	
For >100, Deduct	-2.95	
05 05 19 00-0165 EA 3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	15.92	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-1.49	
For >100, Deduct	-2.98	
05 05 19 00-0166 EA 1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	22.47	
For >10 To 50, Deduct	-1.03	
For >50 To 100, Deduct	-2.11	
For >100, Deduct	-4.22	
05 05 19 00-0167 EA 5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	29.74	
For >10 To 50, Deduct	-1.28	
For >50 To 100, Deduct	-2.66	
For >100, Deduct	-5.32	
05 05 19 00-0168 EA 3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	33.71	
For >10 To 50, Deduct	-1.52	
For >50 To 100, Deduct	-3.12	
For >100, Deduct	-6.24	
05 05 19 00-0169 Chemical And Adhesive Anchors (05 05 19 00-0001)		
05 05 19 00-0170 Chemically Adhered Anchor Rods (05 05 19 00-0169)		
Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171	EA			1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	16.02	
				<i>For >10 To 50, Deduct</i>	-0.67	
				<i>For >50 To 100, Deduct</i>	-1.41	
				<i>For >100, Deduct</i>	-2.82	
05 05 19 00-0172	EA			5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	18.43	
				<i>For >10 To 50, Deduct</i>	-0.73	
				<i>For >50 To 100, Deduct</i>	-1.56	
				<i>For >100, Deduct</i>	-3.12	
05 05 19 00-0173	EA			3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	22.89	
				<i>For >10 To 50, Deduct</i>	-0.92	
				<i>For >50 To 100, Deduct</i>	-1.95	
				<i>For >100, Deduct</i>	-3.89	
05 05 19 00-0174	EA			1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	26.67	
				<i>For >10 To 50, Deduct</i>	-1.03	
				<i>For >50 To 100, Deduct</i>	-2.22	
				<i>For >100, Deduct</i>	-4.43	
05 05 19 00-0175	EA			1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	28.04	
				<i>For >10 To 50, Deduct</i>	-1.03	
				<i>For >50 To 100, Deduct</i>	-2.25	
				<i>For >100, Deduct</i>	-4.50	
05 05 19 00-0176	EA			5/8" x 7" Long Chemically Adhered Anchor Rod.....	34.70	
				<i>For >10 To 50, Deduct</i>	-1.28	
				<i>For >50 To 100, Deduct</i>	-2.78	
				<i>For >100, Deduct</i>	-5.56	
05 05 19 00-0177	EA			3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	44.59	
				<i>For >10 To 50, Deduct</i>	-1.52	
				<i>For >50 To 100, Deduct</i>	-3.39	
				<i>For >100, Deduct</i>	-6.79	
05 05 19 00-0178	EA			7/8" x 10" Long Chemically Adhered Anchor Rod.....	52.31	
				<i>For >10 To 50, Deduct</i>	-1.64	
				<i>For >50 To 100, Deduct</i>	-3.77	
				<i>For >100, Deduct</i>	-7.55	
05 05 19 00-0179	EA			1" x 11-3/4" Long Chemically Adhered Anchor Rod	71.09	
				<i>For >10 To 50, Deduct</i>	-2.13	
				<i>For >50 To 100, Deduct</i>	-4.98	
				<i>For >100, Deduct</i>	-9.95	
05 05 19 00-0180	EA			1-1/4" x 14" Long Chemically Adhered Anchor Rod	100.76	
				<i>For >10 To 50, Deduct</i>	-2.69	
				<i>For >50 To 100, Deduct</i>	-6.55	
				<i>For >100, Deduct</i>	-13.10	
05 05 19 00-0181				Chemical Adhesives For Bolts, Dowels Or Threaded Rod <small>(05 05 19 00-0169)</small>		
				Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored.		
				Includes drilling. Excludes bolt, dowel or rod.		
05 05 19 00-0182	EA			1/4" Chemical Adhesive For Bolt Or Threaded Rod	13.76	
				<i>For >10 To 50, Deduct</i>	-0.67	
				<i>For >50 To 100, Deduct</i>	-1.35	
				<i>For >100, Deduct</i>	-2.70	
05 05 19 00-0183	EA			5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	15.07	
				<i>For >10 To 50, Deduct</i>	-0.73	
				<i>For >50 To 100, Deduct</i>	-1.48	
				<i>For >100, Deduct</i>	-2.95	
05 05 19 00-0184	EA			3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	18.86	
				<i>For >10 To 50, Deduct</i>	-0.92	
				<i>For >50 To 100, Deduct</i>	-1.85	
				<i>For >100, Deduct</i>	-3.69	
05 05 19 00-0185	EA			1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	21.40	
				<i>For >10 To 50, Deduct</i>	-1.03	
				<i>For >50 To 100, Deduct</i>	-2.08	
				<i>For >100, Deduct</i>	-4.17	
05 05 19 00-0186	EA			5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	27.34	
				<i>For >10 To 50, Deduct</i>	-1.28	
				<i>For >50 To 100, Deduct</i>	-2.60	
				<i>For >100, Deduct</i>	-5.20	
05 05 19 00-0187	EA			3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	33.56	
				<i>For >10 To 50, Deduct</i>	-1.52	
				<i>For >50 To 100, Deduct</i>	-3.12	
				<i>For >100, Deduct</i>	-6.23	
05 05 19 00-0188	EA			7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	37.14	
				<i>For >10 To 50, Deduct</i>	-1.64	
				<i>For >50 To 100, Deduct</i>	-3.39	
				<i>For >100, Deduct</i>	-6.79	
05 05 19 00-0189	EA			1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	49.03	
				<i>For >10 To 50, Deduct</i>	-2.13	
				<i>For >50 To 100, Deduct</i>	-4.42	
				<i>For >100, Deduct</i>	-8.85	
05 05 19 00-0190	EA			1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	56.07	
				<i>For >10 To 50, Deduct</i>	-2.41	
				<i>For >50 To 100, Deduct</i>	-5.02	
				<i>For >100, Deduct</i>	-10.04	
05 05 19 00-0191	EA			1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	63.98	
				<i>For >10 To 50, Deduct</i>	-2.69	
				<i>For >50 To 100, Deduct</i>	-5.63	
				<i>For >100, Deduct</i>	-11.26	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192	EA		1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	68.99	
			<i>For >10 To 50, Deduct</i>	-2.81	
			<i>For >50 To 100, Deduct</i>	-5.94	
			<i>For >100, Deduct</i>	-11.88	
05 05 19 00-0193	EA		1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	75.68	
			<i>For >10 To 50, Deduct</i>	-2.93	
			<i>For >50 To 100, Deduct</i>	-6.29	
			<i>For >100, Deduct</i>	-12.58	
05 05 19 00-0194	EA		1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	89.09	
			<i>For >10 To 50, Deduct</i>	-3.18	
			<i>For >50 To 100, Deduct</i>	-6.99	
			<i>For >100, Deduct</i>	-13.99	
05 05 19 00-0195	EA		2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	117.07	
			<i>For >10 To 50, Deduct</i>	-3.30	
			<i>For >50 To 100, Deduct</i>	-7.88	
			<i>For >100, Deduct</i>	-15.75	
05 05 19 00-0196			Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0169)		
05 05 19 00-0197	EA		Grout Concrete Anchor Bolt or Threaded Rod.....	4.54	
			<i>For >10 To 50, Deduct</i>	-0.22	
			<i>For >50 To 100, Deduct</i>	-0.44	
			<i>For >100, Deduct</i>	-0.88	
05 05 19 00-0198			Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0199			Tapcon Masonry Screws (05 05 19 00-0198)		
			Note: Includes drilling. Countersunk or hex head.		
05 05 19 00-0200	EA		3/16" x 1-1/4" Tapcon Masonry Screw.....	12.48	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.46	
05 05 19 00-0201	EA		3/16" x 2-1/4" Tapcon Masonry Screw.....	12.54	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.46	
05 05 19 00-0202	EA		3/16" x 3-1/4" Tapcon Masonry Screw.....	12.69	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.47	
05 05 19 00-0203	EA		1/4" x 1-1/4" Tapcon Masonry Screw.....	12.56	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.46	
05 05 19 00-0204	EA		1/4" x 2-1/4" Tapcon Masonry Screw.....	12.64	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.47	
05 05 19 00-0205	EA		1/4" x 3-1/4" Tapcon Masonry Screw.....	12.81	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.24	
			<i>For >100, Deduct</i>	-2.47	
05 05 19 00-0206			Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0199)		
			Note: Includes drilling. Zinc plated.		
05 05 19 00-0207	EA		3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	13.51	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100, Deduct</i>	-2.51	
05 05 19 00-0208	EA		3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	13.98	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.27	
			<i>For >100, Deduct</i>	-2.53	
05 05 19 00-0209	EA		3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	14.11	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.27	
			<i>For >100, Deduct</i>	-2.54	
05 05 19 00-0210	EA		3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	14.33	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.27	
			<i>For >100, Deduct</i>	-2.55	
05 05 19 00-0211	EA		3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	14.52	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.28	
			<i>For >100, Deduct</i>	-2.56	
05 05 19 00-0212	EA		1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	14.93	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.29	
			<i>For >100, Deduct</i>	-2.58	
05 05 19 00-0213	EA		1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	15.43	
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.30	
			<i>For >100, Deduct</i>	-2.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0214 EA 1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	15.89	
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.31	
<i>For >100, Deduct</i>	-2.63	
05 05 19 00-0215 EA 1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	17.17	
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.35	
<i>For >100, Deduct</i>	-2.69	
05 05 19 00-0216 EA 5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	17.33	
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.35	
<i>For >100, Deduct</i>	-2.70	
05 05 19 00-0217 EA 5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	18.11	
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.37	
<i>For >100, Deduct</i>	-2.74	
05 05 19 00-0218 EA 5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	18.92	
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.39	
<i>For >100, Deduct</i>	-2.78	
05 05 19 00-0219 EA 5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	19.44	
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.40	
<i>For >100, Deduct</i>	-2.81	
05 05 19 00-0220 EA 3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	19.21	
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.40	
<i>For >100, Deduct</i>	-2.79	
05 05 19 00-0221 EA 3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	19.96	
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.42	
<i>For >100, Deduct</i>	-2.83	
05 05 19 00-0222 EA 3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	21.70	
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.46	
<i>For >100, Deduct</i>	-2.92	
05 05 19 00-0223 Pin Bolt Drives <small>(05 05 19 00-0198)</small>		
Note: Includes drilling. Zinc plated.		
05 05 19 00-0224 EA 1/4" x 1" Pin Bolt Drive.....	7.72	
<i>For >10 To 50, Deduct</i>	-0.37	
<i>For >50 To 100, Deduct</i>	-0.74	
<i>For >100, Deduct</i>	-1.49	
05 05 19 00-0225 EA 1/4" x 1-1/4" Pin Bolt Drive.....	7.72	
<i>For >10 To 50, Deduct</i>	-0.37	
<i>For >50 To 100, Deduct</i>	-0.74	
<i>For >100, Deduct</i>	-1.49	
05 05 19 00-0226 EA 1/4" x 1-1/2" Pin Bolt Drive.....	7.77	
<i>For >10 To 50, Deduct</i>	-0.37	
<i>For >50 To 100, Deduct</i>	-0.74	
<i>For >100, Deduct</i>	-1.49	
05 05 19 00-0227 EA 1/4" x 2" Pin Bolt Drive.....	7.79	
<i>For >10 To 50, Deduct</i>	-0.37	
<i>For >50 To 100, Deduct</i>	-0.74	
<i>For >100, Deduct</i>	-1.49	
05 05 19 00-0228 Powder Actuated, Shot-In Place Anchors <small>(05 05 19 00-0198)</small>		
05 05 19 00-0229 EA 0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor.....	1.89	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100, Deduct</i>	-0.34	
05 05 19 00-0230 EA 0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor.....	1.99	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100, Deduct</i>	-0.36	
05 05 19 00-0231 EA 0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor.....	2.16	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100, Deduct</i>	-0.38	
05 05 19 00-0232 EA 0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor.....	2.38	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.21	
<i>For >100, Deduct</i>	-0.41	
05 05 19 00-0233 EA 0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor.....	2.48	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.21	
<i>For >100, Deduct</i>	-0.42	
05 05 19 00-0234 Powder Actuated, Shot-In Place Anchors With Exposed Thread <small>(05 05 19 00-0198)</small>		

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0235 EA 0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor.....	2.18	
For >10 To 50, Deduct	-0.09	
For >50 To 100, Deduct	-0.18	
For >100, Deduct	-0.36	
05 05 19 00-0236 EA 0.205" Diameter x 1-1/16" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor.....	2.93	
For >10 To 50, Deduct	-0.10	
For >50 To 100, Deduct	-0.23	
For >100, Deduct	-0.46	
05 05 21 Fastening Methods for Metal <small>(05 05)</small>		
05 05 21 00-0001 Welding <small>(05 05 21)</small>		
05 05 21 00-0002 Minimum Charge For Welding <small>(05 05 21 00-0001)</small>		
05 05 21 00-0003 EA Welding Minimum Charge.....	477.72	
Note: For projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
05 05 21 00-0004 Spot Welding <small>(05 05 21 00-0001)</small>		
See CSI section 05 05 21 00-0007 for a series of welds.		
05 05 21 00-0005 EA Up To 15 Spot Weldings, Welds Up To 1" Length Each.....	12.24	
For Aluminum Welding, Add	1.91	
For Stainless Steel Welding, Add	3.16	
05 05 21 00-0006 EA >15 Spot Weldings, Welds Up To 1" Length Each.....	9.55	
For Aluminum Welding, Add	1.51	
For Stainless Steel Welding, Add	2.49	
05 05 21 00-0007 Field Welding (Seam And Stitch Welding) <small>(05 05 21 00-0001)</small>		
05 05 21 00-0008 Vertical Fillet Welds <small>(05 05 21 00-0007)</small>		
Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 05 21 00-0009 LF 1/8" Vertical Fillet Weld.....	7.75	
For Aluminum Welding, Add	1.54	
For Stainless Steel Welding, Add	2.41	
For Up To 25, Add	2.56	
For >25 To 50, Add	1.81	
05 05 21 00-0010 LF 3/16" Vertical Fillet Weld.....	15.02	
For Aluminum Welding, Add	2.72	
For Stainless Steel Welding, Add	4.34	
For Up To 25, Add	5.06	
For >25 To 50, Add	3.60	
05 05 21 00-0011 LF 1/4" Vertical Fillet Weld.....	22.54	
For Aluminum Welding, Add	4.10	
For Stainless Steel Welding, Add	6.53	
For Up To 25, Add	7.59	
For >25 To 50, Add	5.40	
05 05 21 00-0012 LF 5/16" Vertical Fillet Weld.....	29.73	
For Aluminum Welding, Add	5.42	
For Stainless Steel Welding, Add	8.63	
For Up To 25, Add	10.01	
For >25 To 50, Add	7.11	
05 05 21 00-0013 LF 3/8" Vertical Fillet Weld.....	37.56	
For Aluminum Welding, Add	6.82	
For Stainless Steel Welding, Add	10.87	
For Up To 25, Add	12.65	
For >25 To 50, Add	9.00	
05 05 21 00-0014 LF 7/16" Vertical Fillet Weld.....	43.71	
For Aluminum Welding, Add	7.49	
For Stainless Steel Welding, Add	12.10	
For Up To 25, Add	14.91	
For >25 To 50, Add	10.62	
05 05 21 00-0015 LF 1/2" Vertical Fillet Weld.....	51.33	
For Aluminum Welding, Add	9.34	
For Stainless Steel Welding, Add	14.89	
For Up To 25, Add	17.28	
For >25 To 50, Add	12.28	
05 05 21 00-0016 LF 9/16" Vertical Fillet Weld.....	60.06	
For Aluminum Welding, Add	10.49	
For Stainless Steel Welding, Add	16.86	
For Up To 25, Add	20.41	
For >25 To 50, Add	14.52	
05 05 21 00-0017 LF 5/8" Vertical Fillet Weld.....	69.63	
For Aluminum Welding, Add	12.19	
For Stainless Steel Welding, Add	19.59	
For Up To 25, Add	23.64	
For >25 To 50, Add	16.83	
05 05 21 00-0018 LF 3/4" Vertical Fillet Weld.....	93.95	
For Aluminum Welding, Add	17.09	
For Stainless Steel Welding, Add	27.23	
For Up To 25, Add	31.64	
For >25 To 50, Add	22.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0019 LF 7/8" Vertical Fillet Weld.....	139.02	
<i>For Aluminum Welding, Add</i>	24.20	
<i>For Stainless Steel Welding, Add</i>	38.93	
<i>For Up To 25, Add</i>	47.26	
<i>For >25 To 50, Add</i>	33.64	
05 05 21 00-0020 LF 1" Vertical Fillet Weld.....	187.26	
<i>For Aluminum Welding, Add</i>	33.69	
<i>For Stainless Steel Welding, Add</i>	53.81	
<i>For Up To 25, Add</i>	63.21	
<i>For >25 To 50, Add</i>	44.95	
05 05 21 00-0021 Horizontal Or Flat Fillet Welds <small>(05 05 21 00-0007)</small>		
<i>Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.</i>		
05 05 21 00-0022 LF 1/8" Horizontal Or Flat Fillet Weld.....	6.53	
<i>For Aluminum Welding, Add</i>	1.36	
<i>For Stainless Steel Welding, Add</i>	2.11	
<i>For Up To 25, Add</i>	2.13	
<i>For >25 To 50, Add</i>	1.51	
05 05 21 00-0023 LF 3/16" Horizontal Or Flat Fillet Weld.....	12.72	
<i>For Aluminum Welding, Add</i>	2.40	
<i>For Stainless Steel Welding, Add</i>	3.80	
<i>For Up To 25, Add</i>	4.25	
<i>For >25 To 50, Add</i>	3.02	
05 05 21 00-0024 LF 1/4" Horizontal Or Flat Fillet Weld.....	19.02	
<i>For Aluminum Welding, Add</i>	3.59	
<i>For Stainless Steel Welding, Add</i>	5.68	
<i>For Up To 25, Add</i>	6.35	
<i>For >25 To 50, Add</i>	4.51	
05 05 21 00-0025 LF 5/16" Horizontal Or Flat Fillet Weld.....	25.14	
<i>For Aluminum Welding, Add</i>	4.78	
<i>For Stainless Steel Welding, Add</i>	7.55	
<i>For Up To 25, Add</i>	8.38	
<i>For >25 To 50, Add</i>	5.95	
05 05 21 00-0026 LF 3/8" Horizontal Or Flat Fillet Weld.....	31.74	
<i>For Aluminum Welding, Add</i>	5.99	
<i>For Stainless Steel Welding, Add</i>	9.47	
<i>For Up To 25, Add</i>	10.60	
<i>For >25 To 50, Add</i>	7.53	
05 05 21 00-0027 LF 7/16" Horizontal Or Flat Fillet Weld.....	36.78	
<i>For Aluminum Welding, Add</i>	6.50	
<i>For Stainless Steel Welding, Add</i>	10.43	
<i>For Up To 25, Add</i>	12.46	
<i>For >25 To 50, Add</i>	8.87	
05 05 21 00-0028 LF 1/2" Horizontal Or Flat Fillet Weld.....	43.34	
<i>For Aluminum Welding, Add</i>	8.22	
<i>For Stainless Steel Welding, Add</i>	12.99	
<i>For Up To 25, Add</i>	14.45	
<i>For >25 To 50, Add</i>	10.26	
05 05 21 00-0029 LF 9/16" Horizontal Or Flat Fillet Weld.....	50.66	
<i>For Aluminum Welding, Add</i>	9.17	
<i>For Stainless Steel Welding, Add</i>	14.63	
<i>For Up To 25, Add</i>	17.08	
<i>For >25 To 50, Add</i>	12.14	
05 05 21 00-0030 LF 5/8" Horizontal Or Flat Fillet Weld.....	59.00	
<i>For Aluminum Welding, Add</i>	10.89	
<i>For Stainless Steel Welding, Add</i>	17.30	
<i>For Up To 25, Add</i>	19.80	
<i>For >25 To 50, Add</i>	14.07	
05 05 21 00-0031 LF 3/4" Horizontal Or Flat Fillet Weld.....	79.41	
<i>For Aluminum Welding, Add</i>	15.06	
<i>For Stainless Steel Welding, Add</i>	23.78	
<i>For Up To 25, Add</i>	26.48	
<i>For >25 To 50, Add</i>	18.80	
05 05 21 00-0032 LF 7/8" Horizontal Or Flat Fillet Weld.....	116.40	
<i>For Aluminum Welding, Add</i>	20.58	
<i>For Stainless Steel Welding, Add</i>	33.00	
<i>For Up To 25, Add</i>	39.44	
<i>For >25 To 50, Add</i>	28.06	
05 05 21 00-0033 LF 1" Horizontal Or Flat Fillet Weld.....	157.68	
<i>For Aluminum Welding, Add</i>	29.52	
<i>For Stainless Steel Welding, Add</i>	46.76	
<i>For Up To 25, Add</i>	52.74	
<i>For >25 To 50, Add</i>	37.46	

05 05 23 Metal Fastenings (05 05)

- 05 05 23 00-0001 Hex Bolts (05 05 23)
Note: For owner furnished materials or where requested by the owner. Excludes drilling through wood, steel, concrete, brick or block. See CSI section 05 05 23 00-1567 for drilling through steel.
- 05 05 23 00-0002 A307B Heavy Hex Bolts (05 05 23 00-0001)
Note: Includes A307B heavy hex nut and two structural washers.
- 05 05 23 00-0003 Plain Finish A307B Heavy Hex Bolts (05 05 23 00-0002)

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0004 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt	13.29	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.18	
For >100, Deduct	-2.37	
05 05 23 00-0005 EA 1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt	14.41	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.21	
For >100, Deduct	-2.42	
05 05 23 00-0006 EA 5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	14.44	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.21	
For >100, Deduct	-2.43	
05 05 23 00-0007 EA 5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	17.09	1.55
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.40	
For >100, Deduct	-2.80	
05 05 23 00-0008 EA 3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	16.32	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.26	
For >100, Deduct	-2.52	
05 05 23 00-0009 EA 3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	19.41	1.55
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.46	
For >100, Deduct	-2.91	
05 05 23 00-0010 EA 3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	23.94	1.62
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.62	
For >100, Deduct	-3.23	
05 05 23 00-0011 EA 3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt	25.64	1.71
For >10 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.71	
For >100, Deduct	-3.42	
05 05 23 00-0012 EA 7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	19.27	1.48
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.41	
For >100, Deduct	-2.81	
05 05 23 00-0013 EA 7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	22.94	1.62
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.59	
For >100, Deduct	-3.18	
05 05 23 00-0014 EA 1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	26.64	1.71
For >10 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.74	
For >100, Deduct	-3.47	
05 05 23 00-0015 EA 1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	36.87	1.79
For >10 To 50, Deduct	-0.75	
For >50 To 100, Deduct	-2.05	
For >100, Deduct	-4.09	
05 05 23 00-0016 EA 1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	43.03	2.04
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-2.34	
For >100, Deduct	-4.69	
05 05 23 00-0017 EA 1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	48.24	2.18
For >10 To 50, Deduct	-0.91	
For >50 To 100, Deduct	-2.57	
For >100, Deduct	-5.13	
05 05 23 00-0018 Galvanized A307B Heavy Hex Bolts <small>(05 05 23 00-0002)</small>		
05 05 23 00-0019 EA 1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt	13.84	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.40	
05 05 23 00-0020 EA 1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt	14.78	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.22	
For >100, Deduct	-2.44	
05 05 23 00-0021 EA 5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	15.79	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.25	
For >100, Deduct	-2.49	
05 05 23 00-0022 EA 5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	18.44	1.55
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.43	
For >100, Deduct	-2.87	
05 05 23 00-0023 EA 3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	17.85	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.60	
05 05 23 00-0024 EA 3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	22.25	1.55
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.53	
For >100, Deduct	-3.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0025 EA 3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	28.83	1.62
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.74	
<i>For >100, Deduct</i>	-3.48	
05 05 23 00-0026 EA 3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt.....	33.56	1.71
<i>For >10 To 50, Deduct</i>	-0.71	
<i>For >50 To 100, Deduct</i>	-1.91	
<i>For >100, Deduct</i>	-3.82	
05 05 23 00-0027 EA 7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	23.29	1.48
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.51	
<i>For >100, Deduct</i>	-3.01	
05 05 23 00-0028 EA 7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	27.48	1.62
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.70	
<i>For >100, Deduct</i>	-3.40	
05 05 23 00-0029 EA 1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	32.49	1.71
<i>For >10 To 50, Deduct</i>	-0.71	
<i>For >50 To 100, Deduct</i>	-1.88	
<i>For >100, Deduct</i>	-3.76	
05 05 23 00-0030 EA 1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	47.47	1.79
<i>For >10 To 50, Deduct</i>	-0.75	
<i>For >50 To 100, Deduct</i>	-2.31	
<i>For >100, Deduct</i>	-4.62	
05 05 23 00-0031 EA 1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	47.78	2.04
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-2.46	
<i>For >100, Deduct</i>	-4.93	
05 05 23 00-0032 EA 1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	59.22	2.18
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-2.84	
<i>For >100, Deduct</i>	-5.68	
05 05 23 00-0033 A325 High Strength Structural Bolts (05 05 23 00-0001)		
05 05 23 00-0034 Plain Finish A325 High Strength Structural Bolts (05 05 23 00-0033)		
Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0035 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt.....	13.04	1.36
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.18	
<i>For >100, Deduct</i>	-2.36	
05 05 23 00-0036 EA 1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	13.28	1.36
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.18	
<i>For >100, Deduct</i>	-2.37	
05 05 23 00-0037 EA 5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	14.07	1.36
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.20	
<i>For >100, Deduct</i>	-2.41	
05 05 23 00-0038 EA 5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	17.11	1.55
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.40	
<i>For >100, Deduct</i>	-2.80	
05 05 23 00-0039 EA 5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	19.57	1.62
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.51	
<i>For >100, Deduct</i>	-3.01	
05 05 23 00-0040 EA 3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	15.17	1.36
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.23	
<i>For >100, Deduct</i>	-2.46	
05 05 23 00-0041 EA 3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	18.27	1.55
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.43	
<i>For >100, Deduct</i>	-2.86	
05 05 23 00-0042 EA 3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	20.60	1.62
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.53	
<i>For >100, Deduct</i>	-3.06	
05 05 23 00-0043 EA 3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	24.95	1.71
<i>For >10 To 50, Deduct</i>	-0.71	
<i>For >50 To 100, Deduct</i>	-1.69	
<i>For >100, Deduct</i>	-3.39	
05 05 23 00-0044 EA 7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	17.46	1.48
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.36	
<i>For >100, Deduct</i>	-2.72	
05 05 23 00-0045 EA 7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	21.02	1.62
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.54	
<i>For >100, Deduct</i>	-3.08	
05 05 23 00-0046 EA 7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	23.81	1.71
<i>For >10 To 50, Deduct</i>	-0.71	
<i>For >50 To 100, Deduct</i>	-1.66	
<i>For >100, Deduct</i>	-3.33	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0047	EA		7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	25.72	1.79
			<i>For >10 To 50, Deduct</i>	-0.75	
			<i>For >50 To 100, Deduct</i>	-1.77	
			<i>For >100, Deduct</i>	-3.53	
05 05 23 00-0048	EA		1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	19.17	1.53
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.44	
			<i>For >100, Deduct</i>	-2.88	
05 05 23 00-0049	EA		1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	22.88	1.71
			<i>For >10 To 50, Deduct</i>	-0.71	
			<i>For >50 To 100, Deduct</i>	-1.64	
			<i>For >100, Deduct</i>	-3.28	
05 05 23 00-0050	EA		1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	26.25	1.79
			<i>For >10 To 50, Deduct</i>	-0.75	
			<i>For >50 To 100, Deduct</i>	-1.78	
			<i>For >100, Deduct</i>	-3.56	
05 05 23 00-0051	EA		1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	33.09	1.91
			<i>For >10 To 50, Deduct</i>	-0.80	
			<i>For >50 To 100, Deduct</i>	-2.02	
			<i>For >100, Deduct</i>	-4.05	
05 05 23 00-0052	EA		1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	31.71	1.91
			<i>For >10 To 50, Deduct</i>	-0.80	
			<i>For >50 To 100, Deduct</i>	-1.99	
			<i>For >100, Deduct</i>	-3.98	
05 05 23 00-0053	EA		1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	35.75	2.04
			<i>For >10 To 50, Deduct</i>	-0.85	
			<i>For >50 To 100, Deduct</i>	-2.16	
			<i>For >100, Deduct</i>	-4.33	
05 05 23 00-0054	EA		1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	41.68	2.18
			<i>For >10 To 50, Deduct</i>	-0.91	
			<i>For >50 To 100, Deduct</i>	-2.40	
			<i>For >100, Deduct</i>	-4.80	
05 05 23 00-0055	EA		1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	48.61	2.33
			<i>For >10 To 50, Deduct</i>	-0.97	
			<i>For >50 To 100, Deduct</i>	-2.67	
			<i>For >100, Deduct</i>	-5.33	
05 05 23 00-0056			Galvanized A325 High Strength Structural Bolts (05 05 23 00-0053)		
			Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0057	EA		1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt.....	13.53	1.36
			<i>For >10 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.38	
05 05 23 00-0058	EA		1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	13.70	1.36
			<i>For >10 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.39	
05 05 23 00-0059	EA		5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	15.11	1.36
			<i>For >10 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.46	
05 05 23 00-0060	EA		5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	17.85	1.55
			<i>For >10 To 50, Deduct</i>	-0.65	
			<i>For >50 To 100, Deduct</i>	-1.42	
			<i>For >100, Deduct</i>	-2.84	
05 05 23 00-0061	EA		5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	18.86	1.62
			<i>For >10 To 50, Deduct</i>	-0.68	
			<i>For >50 To 100, Deduct</i>	-1.49	
			<i>For >100, Deduct</i>	-2.98	
05 05 23 00-0062	EA		3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	15.65	1.36
			<i>For >10 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-1.24	
			<i>For >100, Deduct</i>	-2.49	
05 05 23 00-0063	EA		3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	18.87	1.55
			<i>For >10 To 50, Deduct</i>	-0.65	
			<i>For >50 To 100, Deduct</i>	-1.44	
			<i>For >100, Deduct</i>	-2.89	
05 05 23 00-0064	EA		3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	21.54	1.62
			<i>For >10 To 50, Deduct</i>	-0.68	
			<i>For >50 To 100, Deduct</i>	-1.56	
			<i>For >100, Deduct</i>	-3.11	
05 05 23 00-0065	EA		3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	27.17	1.71
			<i>For >10 To 50, Deduct</i>	-0.71	
			<i>For >50 To 100, Deduct</i>	-1.75	
			<i>For >100, Deduct</i>	-3.50	
05 05 23 00-0066	EA		7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	20.33	1.48
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.43	
			<i>For >100, Deduct</i>	-2.86	
05 05 23 00-0067	EA		7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	22.72	1.62
			<i>For >10 To 50, Deduct</i>	-0.68	
			<i>For >50 To 100, Deduct</i>	-1.58	
			<i>For >100, Deduct</i>	-3.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0068 EA 7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	25.87	1.71
<i>For >10 To 50, Deduct</i>	-0.71	
<i>For >50 To 100, Deduct</i>	-1.72	
<i>For >100, Deduct</i>	-3.43	
05 05 23 00-0069 EA 7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	31.89	1.79
<i>For >10 To 50, Deduct</i>	-0.75	
<i>For >50 To 100, Deduct</i>	-1.92	
<i>For >100, Deduct</i>	-3.84	
05 05 23 00-0070 EA 1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	21.40	1.53
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.50	
<i>For >100, Deduct</i>	-2.99	
05 05 23 00-0071 EA 1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	27.99	1.71
<i>For >10 To 50, Deduct</i>	-0.71	
<i>For >50 To 100, Deduct</i>	-1.77	
<i>For >100, Deduct</i>	-3.54	
05 05 23 00-0072 EA 1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	30.53	1.79
<i>For >10 To 50, Deduct</i>	-0.75	
<i>For >50 To 100, Deduct</i>	-1.89	
<i>For >100, Deduct</i>	-3.77	
05 05 23 00-0073 EA 1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	38.37	1.91
<i>For >10 To 50, Deduct</i>	-0.80	
<i>For >50 To 100, Deduct</i>	-2.16	
<i>For >100, Deduct</i>	-4.31	
05 05 23 00-0074 EA 1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	38.15	1.91
<i>For >10 To 50, Deduct</i>	-0.80	
<i>For >50 To 100, Deduct</i>	-2.15	
<i>For >100, Deduct</i>	-4.30	
05 05 23 00-0075 EA 1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	40.67	2.04
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-2.29	
<i>For >100, Deduct</i>	-4.57	
05 05 23 00-0076 EA 1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	47.32	2.18
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-2.54	
<i>For >100, Deduct</i>	-5.09	
05 05 23 00-0077 EA 1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	54.51	2.33
<i>For >10 To 50, Deduct</i>	-0.97	
<i>For >50 To 100, Deduct</i>	-2.81	
<i>For >100, Deduct</i>	-5.63	
05 05 23 00-0078 A490 High Strength Structural Bolts <small>(05 05 23 00-0001)</small>		
Note: Includes A490 heavy hex nut and two structural washers.		
05 05 23 00-0079 Plain Finish A490 High Strength Structural Bolts <small>(05 05 23 00-0078)</small>		
05 05 23 00-0080 EA 5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	14.46	1.36
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.21	
<i>For >100, Deduct</i>	-2.43	
05 05 23 00-0081 EA 5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	19.79	1.55
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.47	
<i>For >100, Deduct</i>	-2.94	
05 05 23 00-0082 EA 5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	21.11	1.62
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.54	
<i>For >100, Deduct</i>	-3.09	
05 05 23 00-0083 EA 3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	15.98	1.36
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.25	
<i>For >100, Deduct</i>	-2.50	
05 05 23 00-0084 EA 3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	19.19	1.55
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.45	
<i>For >100, Deduct</i>	-2.90	
05 05 23 00-0085 EA 3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	22.09	1.62
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.57	
<i>For >100, Deduct</i>	-3.14	
05 05 23 00-0086 EA 3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt	27.84	1.71
<i>For >10 To 50, Deduct</i>	-0.71	
<i>For >50 To 100, Deduct</i>	-1.77	
<i>For >100, Deduct</i>	-3.53	
05 05 23 00-0087 EA 7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	18.40	1.48
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.38	
<i>For >100, Deduct</i>	-2.77	
05 05 23 00-0088 EA 7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	21.32	1.62
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.55	
<i>For >100, Deduct</i>	-3.10	
05 05 23 00-0089 EA 7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	29.85	1.71
<i>For >10 To 50, Deduct</i>	-0.71	
<i>For >50 To 100, Deduct</i>	-1.82	
<i>For >100, Deduct</i>	-3.63	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0090 EA 1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	21.35	1.53
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.49	
For >100, Deduct	-2.99	
05 05 23 00-0091 EA 1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	25.33	1.71
For >10 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.70	
For >100, Deduct	-3.41	
05 05 23 00-0092 EA 1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	28.88	1.79
For >10 To 50, Deduct	-0.75	
For >50 To 100, Deduct	-1.85	
For >100, Deduct	-3.69	
05 05 23 00-0093 EA 1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	35.61	1.91
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-2.09	
For >100, Deduct	-4.17	
05 05 23 00-0094 EA 1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	45.06	2.04
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-2.40	
For >100, Deduct	-4.79	
05 05 23 00-0095 EA 1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	47.48	2.18
For >10 To 50, Deduct	-0.91	
For >50 To 100, Deduct	-2.55	
For >100, Deduct	-5.09	
05 05 23 00-0096 EA 1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	49.61	2.33
For >10 To 50, Deduct	-0.97	
For >50 To 100, Deduct	-2.69	
For >100, Deduct	-5.38	
05 05 23 00-0097 Hex Head Bolts (05 05 23 00-0001)		
05 05 23 00-0098 Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0099 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0100 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.72	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0101 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.75	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0102 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.81	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0103 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.84	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0104 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.10	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.36	
05 05 23 00-0105 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.13	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.36	
05 05 23 00-0106 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.22	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.36	
05 05 23 00-0107 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.44	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.42	
05 05 23 00-0108 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.47	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.42	
05 05 23 00-0109 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.62	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.42	
05 05 23 00-0110 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.95	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.49	
05 05 23 00-0111 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.06	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.49	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 05 23	00-0112	EA	1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.21	
				<i>For >100 To 250, Deduct</i>	-1.66	
				<i>For >250 To 500, Deduct</i>	-2.07	
				<i>For >500, Deduct</i>	-2.49	
	05 05 23	00-0113	EA	1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.76	
				<i>For >100 To 250, Deduct</i>	-1.70	
				<i>For >250 To 500, Deduct</i>	-2.13	
				<i>For >500, Deduct</i>	-2.55	
	05 05 23	00-0114	EA	1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.00	
				<i>For >100 To 250, Deduct</i>	-1.70	
				<i>For >250 To 500, Deduct</i>	-2.13	
				<i>For >500, Deduct</i>	-2.55	
	05 05 23	00-0115	EA	1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.06	
				<i>For >100 To 250, Deduct</i>	-1.70	
				<i>For >250 To 500, Deduct</i>	-2.13	
				<i>For >500, Deduct</i>	-2.55	
	05 05 23	00-0116		5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0099)</small>		
	05 05 23	00-0117	EA	5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.78	
				<i>For >100 To 250, Deduct</i>	-1.53	
				<i>For >250 To 500, Deduct</i>	-1.91	
				<i>For >500, Deduct</i>	-2.29	
	05 05 23	00-0118	EA	5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.80	
				<i>For >100 To 250, Deduct</i>	-1.53	
				<i>For >250 To 500, Deduct</i>	-1.91	
				<i>For >500, Deduct</i>	-2.29	
	05 05 23	00-0119	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.86	
				<i>For >100 To 250, Deduct</i>	-1.53	
				<i>For >250 To 500, Deduct</i>	-1.91	
				<i>For >500, Deduct</i>	-2.29	
	05 05 23	00-0120	EA	5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.90	
				<i>For >100 To 250, Deduct</i>	-1.53	
				<i>For >250 To 500, Deduct</i>	-1.91	
				<i>For >500, Deduct</i>	-2.29	
	05 05 23	00-0121	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.17	
				<i>For >100 To 250, Deduct</i>	-1.57	
				<i>For >250 To 500, Deduct</i>	-1.97	
				<i>For >500, Deduct</i>	-2.36	
	05 05 23	00-0122	EA	5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.27	
				<i>For >100 To 250, Deduct</i>	-1.57	
				<i>For >250 To 500, Deduct</i>	-1.97	
				<i>For >500, Deduct</i>	-2.36	
	05 05 23	00-0123	EA	5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.31	
				<i>For >100 To 250, Deduct</i>	-1.57	
				<i>For >250 To 500, Deduct</i>	-1.97	
				<i>For >500, Deduct</i>	-2.36	
	05 05 23	00-0124	EA	5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.61	
				<i>For >100 To 250, Deduct</i>	-1.61	
				<i>For >250 To 500, Deduct</i>	-2.02	
				<i>For >500, Deduct</i>	-2.42	
	05 05 23	00-0125	EA	5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.75	
				<i>For >100 To 250, Deduct</i>	-1.61	
				<i>For >250 To 500, Deduct</i>	-2.02	
				<i>For >500, Deduct</i>	-2.42	
	05 05 23	00-0126	EA	5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.81	
				<i>For >100 To 250, Deduct</i>	-1.61	
				<i>For >250 To 500, Deduct</i>	-2.02	
				<i>For >500, Deduct</i>	-2.42	
	05 05 23	00-0127	EA	5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.07	
				<i>For >100 To 250, Deduct</i>	-1.66	
				<i>For >250 To 500, Deduct</i>	-2.07	
				<i>For >500, Deduct</i>	-2.49	
	05 05 23	00-0128	EA	5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.13	
				<i>For >100 To 250, Deduct</i>	-1.66	
				<i>For >250 To 500, Deduct</i>	-2.07	
				<i>For >500, Deduct</i>	-2.49	
	05 05 23	00-0129	EA	5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.67	
				<i>For >100 To 250, Deduct</i>	-1.66	
				<i>For >250 To 500, Deduct</i>	-2.07	
				<i>For >500, Deduct</i>	-2.49	
	05 05 23	00-0130	EA	5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.15	
				<i>For >100 To 250, Deduct</i>	-1.70	
				<i>For >250 To 500, Deduct</i>	-2.13	
				<i>For >500, Deduct</i>	-2.55	
	05 05 23	00-0131	EA	5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.39	
				<i>For >100 To 250, Deduct</i>	-1.70	
				<i>For >250 To 500, Deduct</i>	-2.13	
				<i>For >500, Deduct</i>	-2.55	
	05 05 23	00-0132	EA	5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.60	
				<i>For >100 To 250, Deduct</i>	-1.70	
				<i>For >250 To 500, Deduct</i>	-2.13	
				<i>For >500, Deduct</i>	-2.55	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0133		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0134	EA	3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.85	
		<i>For >100 To 250, Deduct</i>	-1.53	
		<i>For >250 To 500, Deduct</i>	-1.91	
		<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0135	EA	3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.87	
		<i>For >100 To 250, Deduct</i>	-1.53	
		<i>For >250 To 500, Deduct</i>	-1.91	
		<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0136	EA	3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.94	
		<i>For >100 To 250, Deduct</i>	-1.53	
		<i>For >250 To 500, Deduct</i>	-1.91	
		<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0137	EA	3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.01	
		<i>For >100 To 250, Deduct</i>	-1.53	
		<i>For >250 To 500, Deduct</i>	-1.91	
		<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0138	EA	3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.29	
		<i>For >100 To 250, Deduct</i>	-1.57	
		<i>For >250 To 500, Deduct</i>	-1.97	
		<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0139	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42	
		<i>For >100 To 250, Deduct</i>	-1.57	
		<i>For >250 To 500, Deduct</i>	-1.97	
		<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0140	EA	3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.54	
		<i>For >100 To 250, Deduct</i>	-1.57	
		<i>For >250 To 500, Deduct</i>	-1.97	
		<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0141	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.87	
		<i>For >100 To 250, Deduct</i>	-1.61	
		<i>For >250 To 500, Deduct</i>	-2.02	
		<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0142	EA	3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.04	
		<i>For >100 To 250, Deduct</i>	-1.61	
		<i>For >250 To 500, Deduct</i>	-2.02	
		<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0143	EA	3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.13	
		<i>For >100 To 250, Deduct</i>	-1.61	
		<i>For >250 To 500, Deduct</i>	-2.02	
		<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0144	EA	3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.51	
		<i>For >100 To 250, Deduct</i>	-1.66	
		<i>For >250 To 500, Deduct</i>	-2.07	
		<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0145	EA	3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.60	
		<i>For >100 To 250, Deduct</i>	-1.66	
		<i>For >250 To 500, Deduct</i>	-2.07	
		<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0146	EA	3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.67	
		<i>For >100 To 250, Deduct</i>	-1.66	
		<i>For >250 To 500, Deduct</i>	-2.07	
		<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0147	EA	3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.93	
		<i>For >100 To 250, Deduct</i>	-1.70	
		<i>For >250 To 500, Deduct</i>	-2.13	
		<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0148	EA	3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.03	
		<i>For >100 To 250, Deduct</i>	-1.70	
		<i>For >250 To 500, Deduct</i>	-2.13	
		<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0149	EA	3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.17	
		<i>For >100 To 250, Deduct</i>	-1.70	
		<i>For >250 To 500, Deduct</i>	-2.13	
		<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0150		7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0151	EA	7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.23	
		<i>For >100 To 250, Deduct</i>	-1.74	
		<i>For >250 To 500, Deduct</i>	-2.18	
		<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0152	EA	7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.33	
		<i>For >100 To 250, Deduct</i>	-1.74	
		<i>For >250 To 500, Deduct</i>	-2.18	
		<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0153	EA	7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.34	
		<i>For >100 To 250, Deduct</i>	-1.74	
		<i>For >250 To 500, Deduct</i>	-2.18	
		<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0154	EA	7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.70	
		<i>For >100 To 250, Deduct</i>	-1.79	
		<i>For >250 To 500, Deduct</i>	-2.24	
		<i>For >500, Deduct</i>	-2.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0155 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.85	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0156 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.98	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0157 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.53	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0158 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.62	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0159 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.80	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0160 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.32	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0161 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.41	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0162 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.64	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0163 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.96	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0164 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.17	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0165 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.58	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0166 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0167 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.15	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0168 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.27	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0169 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.39	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0170 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.74	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0171 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.87	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0172 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.00	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0173 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.38	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0174 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.53	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0175 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.78	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.75	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0176	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.03	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0177	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.06	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0178	EA		1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.28	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0179	EA		1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.69	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0180	EA		1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.83	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0181	EA		1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.20	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0182	EA		1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.60	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0183	EA		1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.74	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0184	EA		1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.26	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0185	EA		1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.40	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0186			9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0187	EA		9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.27	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0188	EA		9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.44	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0189	EA		9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.48	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0190	EA		9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.24	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0191	EA		9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.46	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0192	EA		9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.53	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0193	EA		9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.78	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0194	EA		9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.83	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0195	EA		9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.02	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0196	EA		9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.28	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0197 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.33	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0198 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.49	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0199 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.89	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0200 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.08	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0201 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.28	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0202 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.67	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0203 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.90	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0204 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.05	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0205 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.29	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0206 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0207 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.74	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0208 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.85	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0209 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.99	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0210 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.41	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.51	
<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0211 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.62	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.51	
<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0212 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.89	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.51	
<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0213 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.44	
<i>For >100 To 250, Deduct</i>	-2.05	
<i>For >250 To 500, Deduct</i>	-2.56	
<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0214 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.85	
<i>For >100 To 250, Deduct</i>	-2.05	
<i>For >250 To 500, Deduct</i>	-2.56	
<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0215 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.17	
<i>For >100 To 250, Deduct</i>	-2.05	
<i>For >250 To 500, Deduct</i>	-2.56	
<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0216 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.52	
<i>For >100 To 250, Deduct</i>	-2.09	
<i>For >250 To 500, Deduct</i>	-2.62	
<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0217 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.56	
<i>For >100 To 250, Deduct</i>	-2.09	
<i>For >250 To 500, Deduct</i>	-2.62	
<i>For >500, Deduct</i>	-3.14	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0218	EA		5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.10	
			<i>For >100 To 250, Deduct</i>	-2.09	
			<i>For >250 To 500, Deduct</i>	-2.62	
			<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0219	EA		5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.63	
			<i>For >100 To 250, Deduct</i>	-2.14	
			<i>For >250 To 500, Deduct</i>	-2.67	
			<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0220	EA		5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.06	
			<i>For >100 To 250, Deduct</i>	-2.14	
			<i>For >250 To 500, Deduct</i>	-2.67	
			<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0221	EA		5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.57	
			<i>For >100 To 250, Deduct</i>	-2.14	
			<i>For >250 To 500, Deduct</i>	-2.67	
			<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0222	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.32	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0223	EA		5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.81	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0224	EA		5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.32	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0225	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.71	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0226			3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>05 05</small>		
			<small>23 00-0098</small>		
05 05 23 00-0227	EA		3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.10	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0228	EA		3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.33	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0229	EA		3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.53	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0230	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.01	
			<i>For >100 To 250, Deduct</i>	-2.01	
			<i>For >250 To 500, Deduct</i>	-2.51	
			<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0231	EA		3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.33	
			<i>For >100 To 250, Deduct</i>	-2.01	
			<i>For >250 To 500, Deduct</i>	-2.51	
			<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0232	EA		3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.61	
			<i>For >100 To 250, Deduct</i>	-2.01	
			<i>For >250 To 500, Deduct</i>	-2.51	
			<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0233	EA		3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.12	
			<i>For >100 To 250, Deduct</i>	-2.05	
			<i>For >250 To 500, Deduct</i>	-2.56	
			<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0234	EA		3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.51	
			<i>For >100 To 250, Deduct</i>	-2.05	
			<i>For >250 To 500, Deduct</i>	-2.56	
			<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0235	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.82	
			<i>For >100 To 250, Deduct</i>	-2.05	
			<i>For >250 To 500, Deduct</i>	-2.56	
			<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0236	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.68	
			<i>For >100 To 250, Deduct</i>	-2.09	
			<i>For >250 To 500, Deduct</i>	-2.62	
			<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0237	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.94	
			<i>For >100 To 250, Deduct</i>	-2.09	
			<i>For >250 To 500, Deduct</i>	-2.62	
			<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0238	EA		3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.42	
			<i>For >100 To 250, Deduct</i>	-2.09	
			<i>For >250 To 500, Deduct</i>	-2.62	
			<i>For >500, Deduct</i>	-3.14	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0239	EA			3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.67	
				<i>For >100 To 250, Deduct</i>	-2.14	
				<i>For >250 To 500, Deduct</i>	-2.67	
				<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0240	EA			3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.80	
				<i>For >100 To 250, Deduct</i>	-2.14	
				<i>For >250 To 500, Deduct</i>	-2.67	
				<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0241	EA			3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.32	
				<i>For >100 To 250, Deduct</i>	-2.14	
				<i>For >250 To 500, Deduct</i>	-2.67	
				<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0242	EA			3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.22	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0243	EA			3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.74	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0244	EA			3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.44	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0245	EA			3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.12	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0246				7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0247	EA			7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.36	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0248	EA			7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.55	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0249	EA			7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.64	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0250	EA			7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.13	
				<i>For >100 To 250, Deduct</i>	-2.23	
				<i>For >250 To 500, Deduct</i>	-2.78	
				<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0251	EA			7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.64	
				<i>For >100 To 250, Deduct</i>	-2.23	
				<i>For >250 To 500, Deduct</i>	-2.78	
				<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0252	EA			7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.24	
				<i>For >100 To 250, Deduct</i>	-2.23	
				<i>For >250 To 500, Deduct</i>	-2.78	
				<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0253	EA			7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.96	
				<i>For >100 To 250, Deduct</i>	-2.27	
				<i>For >250 To 500, Deduct</i>	-2.84	
				<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0254	EA			7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.83	
				<i>For >100 To 250, Deduct</i>	-2.27	
				<i>For >250 To 500, Deduct</i>	-2.84	
				<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0255	EA			7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.31	
				<i>For >100 To 250, Deduct</i>	-2.27	
				<i>For >250 To 500, Deduct</i>	-2.84	
				<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0256	EA			7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.90	
				<i>For >100 To 250, Deduct</i>	-2.31	
				<i>For >250 To 500, Deduct</i>	-2.89	
				<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0257	EA			7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.19	
				<i>For >100 To 250, Deduct</i>	-2.31	
				<i>For >250 To 500, Deduct</i>	-2.89	
				<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0258	EA			7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.88	
				<i>For >100 To 250, Deduct</i>	-2.31	
				<i>For >250 To 500, Deduct</i>	-2.89	
				<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0259	EA			7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.79	
				<i>For >100 To 250, Deduct</i>	-2.36	
				<i>For >250 To 500, Deduct</i>	-2.95	
				<i>For >500, Deduct</i>	-3.53	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0260 EA 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.48	
For >100 To 250, Deduct	-2.36	
For >250 To 500, Deduct	-2.95	
For >500, Deduct	-3.53	
05 05 23 00-0261 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.17	
For >100 To 250, Deduct	-2.36	
For >250 To 500, Deduct	-2.95	
For >500, Deduct	-3.53	
05 05 23 00-0262 EA 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.04	
For >100 To 250, Deduct	-2.40	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-3.60	
05 05 23 00-0263 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.77	
For >100 To 250, Deduct	-2.40	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-3.60	
05 05 23 00-0264 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.43	
For >100 To 250, Deduct	-2.40	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-3.60	
05 05 23 00-0265 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.15	
For >100 To 250, Deduct	-2.40	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-3.60	
05 05 23 00-0266 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0267 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.21	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	
05 05 23 00-0268 EA 1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.47	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	
05 05 23 00-0269 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.49	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.78	
For >500, Deduct	-3.34	
05 05 23 00-0270 EA 1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.48	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.78	
For >500, Deduct	-3.34	
05 05 23 00-0271 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.39	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.78	
For >500, Deduct	-3.34	
05 05 23 00-0272 EA 1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.54	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.41	
05 05 23 00-0273 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.41	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.41	
05 05 23 00-0274 EA 1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.32	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.41	
05 05 23 00-0275 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.98	
For >100 To 250, Deduct	-2.31	
For >250 To 500, Deduct	-2.89	
For >500, Deduct	-3.47	
05 05 23 00-0276 EA 1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.41	
For >100 To 250, Deduct	-2.31	
For >250 To 500, Deduct	-2.89	
For >500, Deduct	-3.47	
05 05 23 00-0277 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.17	
For >100 To 250, Deduct	-2.31	
For >250 To 500, Deduct	-2.89	
For >500, Deduct	-3.47	
05 05 23 00-0278 EA 1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.15	
For >100 To 250, Deduct	-2.36	
For >250 To 500, Deduct	-2.95	
For >500, Deduct	-3.53	
05 05 23 00-0279 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.90	
For >100 To 250, Deduct	-2.36	
For >250 To 500, Deduct	-2.95	
For >500, Deduct	-3.53	
05 05 23 00-0280 EA 1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.68	
For >100 To 250, Deduct	-2.36	
For >250 To 500, Deduct	-2.95	
For >500, Deduct	-3.53	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 05 23 00-0281	EA		1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.52	
				<i>For >100 To 250, Deduct</i>	-2.40	
				<i>For >250 To 500, Deduct</i>	-3.00	
				<i>For >500, Deduct</i>	-3.60	
	05 05 23 00-0282	EA		1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.41	
				<i>For >100 To 250, Deduct</i>	-2.40	
				<i>For >250 To 500, Deduct</i>	-3.00	
				<i>For >500, Deduct</i>	-3.60	
	05 05 23 00-0283	EA		1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.19	
				<i>For >100 To 250, Deduct</i>	-2.40	
				<i>For >250 To 500, Deduct</i>	-3.00	
				<i>For >500, Deduct</i>	-3.60	
	05 05 23 00-0284	EA		1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.98	
				<i>For >100 To 250, Deduct</i>	-2.40	
				<i>For >250 To 500, Deduct</i>	-3.00	
				<i>For >500, Deduct</i>	-3.60	
	05 05 23 00-0285			Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0097)</small>		
	05 05 23 00-0286			1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
	05 05 23 00-0287	EA		1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.77	
				<i>For >100 To 250, Deduct</i>	-1.53	
				<i>For >250 To 500, Deduct</i>	-1.91	
				<i>For >500, Deduct</i>	-2.29	
	05 05 23 00-0288	EA		1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.81	
				<i>For >100 To 250, Deduct</i>	-1.53	
				<i>For >250 To 500, Deduct</i>	-1.91	
				<i>For >500, Deduct</i>	-2.29	
	05 05 23 00-0289	EA		1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.84	
				<i>For >100 To 250, Deduct</i>	-1.53	
				<i>For >250 To 500, Deduct</i>	-1.91	
				<i>For >500, Deduct</i>	-2.29	
	05 05 23 00-0290	EA		1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.91	
				<i>For >100 To 250, Deduct</i>	-1.53	
				<i>For >250 To 500, Deduct</i>	-1.91	
				<i>For >500, Deduct</i>	-2.29	
	05 05 23 00-0291	EA		1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.20	
				<i>For >100 To 250, Deduct</i>	-1.57	
				<i>For >250 To 500, Deduct</i>	-1.97	
				<i>For >500, Deduct</i>	-2.36	
	05 05 23 00-0292	EA		1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.31	
				<i>For >100 To 250, Deduct</i>	-1.57	
				<i>For >250 To 500, Deduct</i>	-1.97	
				<i>For >500, Deduct</i>	-2.36	
	05 05 23 00-0293	EA		1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.44	
				<i>For >100 To 250, Deduct</i>	-1.57	
				<i>For >250 To 500, Deduct</i>	-1.97	
				<i>For >500, Deduct</i>	-2.36	
	05 05 23 00-0294	EA		1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.76	
				<i>For >100 To 250, Deduct</i>	-1.61	
				<i>For >250 To 500, Deduct</i>	-2.02	
				<i>For >500, Deduct</i>	-2.42	
	05 05 23 00-0295	EA		1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.91	
				<i>For >100 To 250, Deduct</i>	-1.61	
				<i>For >250 To 500, Deduct</i>	-2.02	
				<i>For >500, Deduct</i>	-2.42	
	05 05 23 00-0296	EA		1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.02	
				<i>For >100 To 250, Deduct</i>	-1.61	
				<i>For >250 To 500, Deduct</i>	-2.02	
				<i>For >500, Deduct</i>	-2.42	
	05 05 23 00-0297	EA		1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.36	
				<i>For >100 To 250, Deduct</i>	-1.66	
				<i>For >250 To 500, Deduct</i>	-2.07	
				<i>For >500, Deduct</i>	-2.49	
	05 05 23 00-0298	EA		1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.46	
				<i>For >100 To 250, Deduct</i>	-1.66	
				<i>For >250 To 500, Deduct</i>	-2.07	
				<i>For >500, Deduct</i>	-2.49	
	05 05 23 00-0299	EA		1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.56	
				<i>For >100 To 250, Deduct</i>	-1.66	
				<i>For >250 To 500, Deduct</i>	-2.07	
				<i>For >500, Deduct</i>	-2.49	
	05 05 23 00-0300	EA		1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.92	
				<i>For >100 To 250, Deduct</i>	-1.70	
				<i>For >250 To 500, Deduct</i>	-2.13	
				<i>For >500, Deduct</i>	-2.55	
	05 05 23 00-0301	EA		1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.06	
				<i>For >100 To 250, Deduct</i>	-1.70	
				<i>For >250 To 500, Deduct</i>	-2.13	
				<i>For >500, Deduct</i>	-2.55	
	05 05 23 00-0302	EA		1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.20	
				<i>For >100 To 250, Deduct</i>	-1.70	
				<i>For >250 To 500, Deduct</i>	-2.13	
				<i>For >500, Deduct</i>	-2.55	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0303	5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0304	EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.85	
	For >100 To 250, Deduct	-1.53	
	For >250 To 500, Deduct	-1.91	
	For >500, Deduct	-2.29	
05 05 23 00-0305	EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.88	
	For >100 To 250, Deduct	-1.53	
	For >250 To 500, Deduct	-1.91	
	For >500, Deduct	-2.29	
05 05 23 00-0306	EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.92	
	For >100 To 250, Deduct	-1.53	
	For >250 To 500, Deduct	-1.91	
	For >500, Deduct	-2.29	
05 05 23 00-0307	EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.01	
	For >100 To 250, Deduct	-1.53	
	For >250 To 500, Deduct	-1.91	
	For >500, Deduct	-2.29	
05 05 23 00-0308	EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.30	
	For >100 To 250, Deduct	-1.57	
	For >250 To 500, Deduct	-1.97	
	For >500, Deduct	-2.36	
05 05 23 00-0309	EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.41	
	For >100 To 250, Deduct	-1.57	
	For >250 To 500, Deduct	-1.97	
	For >500, Deduct	-2.36	
05 05 23 00-0310	EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.62	
	For >100 To 250, Deduct	-1.57	
	For >250 To 500, Deduct	-1.97	
	For >500, Deduct	-2.36	
05 05 23 00-0311	EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.93	
	For >100 To 250, Deduct	-1.61	
	For >250 To 500, Deduct	-2.02	
	For >500, Deduct	-2.42	
05 05 23 00-0312	EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.08	
	For >100 To 250, Deduct	-1.61	
	For >250 To 500, Deduct	-2.02	
	For >500, Deduct	-2.42	
05 05 23 00-0313	EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.23	
	For >100 To 250, Deduct	-1.61	
	For >250 To 500, Deduct	-2.02	
	For >500, Deduct	-2.42	
05 05 23 00-0314	EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.74	
	For >100 To 250, Deduct	-1.66	
	For >250 To 500, Deduct	-2.07	
	For >500, Deduct	-2.49	
05 05 23 00-0315	EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.79	
	For >100 To 250, Deduct	-1.66	
	For >250 To 500, Deduct	-2.07	
	For >500, Deduct	-2.49	
05 05 23 00-0316	EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.98	
	For >100 To 250, Deduct	-1.66	
	For >250 To 500, Deduct	-2.07	
	For >500, Deduct	-2.49	
05 05 23 00-0317	EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.46	
	For >100 To 250, Deduct	-1.70	
	For >250 To 500, Deduct	-2.13	
	For >500, Deduct	-2.55	
05 05 23 00-0318	EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.73	
	For >100 To 250, Deduct	-1.70	
	For >250 To 500, Deduct	-2.13	
	For >500, Deduct	-2.55	
05 05 23 00-0319	EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.98	
	For >100 To 250, Deduct	-1.70	
	For >250 To 500, Deduct	-2.13	
	For >500, Deduct	-2.55	
05 05 23 00-0320	3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0321	EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.89	
	For >100 To 250, Deduct	-1.53	
	For >250 To 500, Deduct	-1.91	
	For >500, Deduct	-2.29	
05 05 23 00-0322	EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.91	
	For >100 To 250, Deduct	-1.53	
	For >250 To 500, Deduct	-1.91	
	For >500, Deduct	-2.29	
05 05 23 00-0323	EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.00	
	For >100 To 250, Deduct	-1.53	
	For >250 To 500, Deduct	-1.91	
	For >500, Deduct	-2.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0324 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.10	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0325 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.42	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0326 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.53	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0327 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.71	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0328 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.11	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0329 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.52	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0330 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.70	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0331 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.17	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0332 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.34	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0333 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.65	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0334 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.10	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0335 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.51	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0336 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.84	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0337 7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0338 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.16	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0339 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.24	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0340 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.45	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0341 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.83	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0342 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.99	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0343 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.13	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0344 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.54	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.75	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0345	EA		7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.35	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0346	EA		7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.71	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0347	EA		7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.04	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0348	EA		7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.20	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0349	EA		7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.38	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0350	EA		7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.83	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0351	EA		7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.07	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0352	EA		7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.31	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0353			1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0354	EA		1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.27	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0355	EA		1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.38	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0356	EA		1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.50	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0357	EA		1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.92	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0358	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.10	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0359	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.29	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0360	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.69	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0361	EA		1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.33	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0362	EA		1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.37	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0363	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.02	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0364	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.26	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0365	EA		1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.90	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0366	EA			1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.70	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0367	EA			1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.05	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0368	EA			1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.19	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0369	EA			1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.07	
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0370	EA			1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.69	
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0371	EA			1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.57	
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0372	EA			1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.91	
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0373				9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0374	EA			9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.61	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0375	EA			9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.82	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0376	EA			9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.00	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0377	EA			9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.43	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0378	EA			9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.68	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0379	EA			9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.97	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0380	EA			9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.52	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0381	EA			9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.63	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0382	EA			9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.92	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0383	EA			9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.46	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0384	EA			9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.76	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0385	EA			9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.79	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0386	EA			9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.27	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0387 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.69	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0388 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.40	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0389 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.29	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0390 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.54	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0391 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.80	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0392 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.44	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0393 5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0394 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.93	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0395 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.00	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0396 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.06	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0397 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.48	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.51	
For>500, Deduct	-3.01	
05 05 23 00-0398 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.82	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.51	
For>500, Deduct	-3.01	
05 05 23 00-0399 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.12	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.51	
For>500, Deduct	-3.01	
05 05 23 00-0400 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.65	
For>100 To 250, Deduct	-2.05	
For>250 To 500, Deduct	-2.56	
For>500, Deduct	-3.08	
05 05 23 00-0401 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.25	
For>100 To 250, Deduct	-2.05	
For>250 To 500, Deduct	-2.56	
For>500, Deduct	-3.08	
05 05 23 00-0402 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.57	
For>100 To 250, Deduct	-2.05	
For>250 To 500, Deduct	-2.56	
For>500, Deduct	-3.08	
05 05 23 00-0403 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.95	
For>100 To 250, Deduct	-2.09	
For>250 To 500, Deduct	-2.62	
For>500, Deduct	-3.14	
05 05 23 00-0404 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.46	
For>100 To 250, Deduct	-2.09	
For>250 To 500, Deduct	-2.62	
For>500, Deduct	-3.14	
05 05 23 00-0405 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.27	
For>100 To 250, Deduct	-2.09	
For>250 To 500, Deduct	-2.62	
For>500, Deduct	-3.14	
05 05 23 00-0406 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.23	
For>100 To 250, Deduct	-2.14	
For>250 To 500, Deduct	-2.67	
For>500, Deduct	-3.21	
05 05 23 00-0407 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.90	
For>100 To 250, Deduct	-2.14	
For>250 To 500, Deduct	-2.67	
For>500, Deduct	-3.21	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0408	EA			5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.00	
				<i>For >100 To 250, Deduct</i>	-2.14	
				<i>For >250 To 500, Deduct</i>	-2.67	
				<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0409	EA			5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.42	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0410	EA			5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.33	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0411	EA			5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.65	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0412	EA			5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.11	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0413				3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0414	EA			3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.69	
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0415	EA			3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.82	
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0416	EA			3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.89	
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0417	EA			3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.40	
				<i>For >100 To 250, Deduct</i>	-2.01	
				<i>For >250 To 500, Deduct</i>	-2.51	
				<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0418	EA			3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.74	
				<i>For >100 To 250, Deduct</i>	-2.01	
				<i>For >250 To 500, Deduct</i>	-2.51	
				<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0419	EA			3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.25	
				<i>For >100 To 250, Deduct</i>	-2.01	
				<i>For >250 To 500, Deduct</i>	-2.51	
				<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0420	EA			3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.81	
				<i>For >100 To 250, Deduct</i>	-2.05	
				<i>For >250 To 500, Deduct</i>	-2.56	
				<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0421	EA			3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.14	
				<i>For >100 To 250, Deduct</i>	-2.05	
				<i>For >250 To 500, Deduct</i>	-2.56	
				<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0422	EA			3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.84	
				<i>For >100 To 250, Deduct</i>	-2.05	
				<i>For >250 To 500, Deduct</i>	-2.56	
				<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0423	EA			3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.38	
				<i>For >100 To 250, Deduct</i>	-2.09	
				<i>For >250 To 500, Deduct</i>	-2.62	
				<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0424	EA			3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.95	
				<i>For >100 To 250, Deduct</i>	-2.09	
				<i>For >250 To 500, Deduct</i>	-2.62	
				<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0425	EA			3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.65	
				<i>For >100 To 250, Deduct</i>	-2.09	
				<i>For >250 To 500, Deduct</i>	-2.62	
				<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0426	EA			3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.86	
				<i>For >100 To 250, Deduct</i>	-2.14	
				<i>For >250 To 500, Deduct</i>	-2.67	
				<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0427	EA			3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.59	
				<i>For >100 To 250, Deduct</i>	-2.14	
				<i>For >250 To 500, Deduct</i>	-2.67	
				<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0428	EA			3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.00	
				<i>For >100 To 250, Deduct</i>	-2.14	
				<i>For >250 To 500, Deduct</i>	-2.67	
				<i>For >500, Deduct</i>	-3.21	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0429	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.30	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0430	EA		3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.67	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0431	EA		3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.87	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0432	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.17	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0433			7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0434	EA		7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.72	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0435	EA		7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.89	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0436	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.11	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0437	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.57	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.78	
			<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0438	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.25	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.78	
			<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0439	EA		7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.70	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.78	
			<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0440	EA		7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.26	
			<i>For >100 To 250, Deduct</i>	-2.27	
			<i>For >250 To 500, Deduct</i>	-2.84	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0441	EA		7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.06	
			<i>For >100 To 250, Deduct</i>	-2.27	
			<i>For >250 To 500, Deduct</i>	-2.84	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0442	EA		7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.66	
			<i>For >100 To 250, Deduct</i>	-2.27	
			<i>For >250 To 500, Deduct</i>	-2.84	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0443	EA		7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.16	
			<i>For >100 To 250, Deduct</i>	-2.31	
			<i>For >250 To 500, Deduct</i>	-2.89	
			<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0444	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.66	
			<i>For >100 To 250, Deduct</i>	-2.31	
			<i>For >250 To 500, Deduct</i>	-2.89	
			<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0445	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.82	
			<i>For >100 To 250, Deduct</i>	-2.31	
			<i>For >250 To 500, Deduct</i>	-2.89	
			<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0446	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.81	
			<i>For >100 To 250, Deduct</i>	-2.36	
			<i>For >250 To 500, Deduct</i>	-2.95	
			<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0447	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.75	
			<i>For >100 To 250, Deduct</i>	-2.36	
			<i>For >250 To 500, Deduct</i>	-2.95	
			<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0448	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.81	
			<i>For >100 To 250, Deduct</i>	-2.36	
			<i>For >250 To 500, Deduct</i>	-2.95	
			<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0449	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.40	
			<i>For >100 To 250, Deduct</i>	-2.40	
			<i>For >250 To 500, Deduct</i>	-3.00	
			<i>For >500, Deduct</i>	-3.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0450 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.32	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0451 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	26.11	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0452 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	26.90	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0453 1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0454 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.23	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0455 EA 1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.28	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0456 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.02	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0457 EA 1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.67	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0458 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.16	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0459 EA 1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.99	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0460 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.76	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0461 EA 1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.88	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0462 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.89	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0463 EA 1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.13	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0464 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.69	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0465 EA 1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.91	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-2.95	
<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0466 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.58	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-2.95	
<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0467 EA 1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	26.05	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-2.95	
<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0468 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	31.59	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0469 EA 1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	32.02	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0470 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	33.16	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0471 EA 1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	33.94	
For >100 To 250, Deduct	-2.40	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-3.60	
05 05 23 00-0472 Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0473 1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0474 EA 1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.79	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0475 EA 1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.87	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0476 EA 1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.91	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0477 EA 1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.99	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0478 EA 1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.27	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.36	
05 05 23 00-0479 EA 1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.36	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.36	
05 05 23 00-0480 EA 1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.45	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.36	
05 05 23 00-0481 EA 1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.67	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.42	
05 05 23 00-0482 EA 1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.93	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.42	
05 05 23 00-0483 EA 1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.17	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.42	
05 05 23 00-0484 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.51	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.49	
05 05 23 00-0485 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.64	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.49	
05 05 23 00-0486 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.81	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.49	
05 05 23 00-0487 EA 1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.14	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0488 EA 1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.46	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0489 EA 1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.60	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0490 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0491 EA 5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.86	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0492 EA 5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.91	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0493 EA 5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.06	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0494 EA 5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.09	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0495 EA 5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.40	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0496 EA 5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.62	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0497 EA 5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.69	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0498 EA 5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.03	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0499 EA 5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.18	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0500 EA 5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.51	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0501 EA 5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.92	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0502 EA 5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.05	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0503 EA 5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.24	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0504 EA 5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.59	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0505 EA 5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.74	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0506 EA 5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.01	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0507 3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0508 EA 3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.02	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0509 EA 3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.04	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0510 EA 3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.05	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0511 EA 3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.23	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0512 EA 3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.56	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0513 EA 3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.74	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0514	EA		3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.90	
			<i>For >100 To 250, Deduct</i>	-1.57	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0515	EA		3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.62	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0516	EA		3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.83	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0517	EA		3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.87	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0518	EA		3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.17	
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0519	EA		3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.39	
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0520	EA		3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.40	
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0521	EA		3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.86	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0522	EA		3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.31	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0523	EA		3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.37	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0524			7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0525	EA		7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.28	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0526	EA		7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.30	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0527	EA		7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.59	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0528	EA		7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.83	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0529	EA		7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.15	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0530	EA		7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.33	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0531	EA		7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.58	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0532	EA		7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.28	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0533	EA		7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.84	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0534	EA		7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.43	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0535	EA			7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.62	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0536	EA			7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.91	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0537	EA			7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.56	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0538	EA			7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.50	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0539	EA			7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.57	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0540				1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0541	EA			1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.46	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0542	EA			1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.67	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0543	EA			1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.80	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0544	EA			1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.15	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0545	EA			1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.38	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0546	EA			1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.89	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0547	EA			1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.47	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0548	EA			1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.77	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0549	EA			1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.98	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0550	EA			1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.57	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0551	EA			1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.22	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0552	EA			1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.81	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0553	EA			1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.55	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0554	EA			1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.81	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0555	EA			1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.55	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0556	EA		1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.01	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0557	EA		1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.54	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0558	EA		1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.82	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0559	EA		1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.14	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0560			9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)	9.65	
05 05 23 00-0561	EA		9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.65	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0562	EA		9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.78	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0563	EA		9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.06	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0564	EA		9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.71	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0565	EA		9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.81	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0566	EA		9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.23	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0567	EA		9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.73	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0568	EA		9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.10	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0569	EA		9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.37	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0570	EA		9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.80	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0571	EA		9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.40	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0572	EA		9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.65	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0573	EA		9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.51	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0574	EA		9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.76	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0575	EA		9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.30	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	

05 05 23 00-0576 5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0577	EA		5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.20	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0578	EA		5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.32	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0579	EA		5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.64	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0580	EA		5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.32	
			<i>For >100 To 250, Deduct</i>	-2.01	
			<i>For >250 To 500, Deduct</i>	-2.51	
			<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0581	EA		5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.70	
			<i>For >100 To 250, Deduct</i>	-2.01	
			<i>For >250 To 500, Deduct</i>	-2.51	
			<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0582	EA		5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.90	
			<i>For >100 To 250, Deduct</i>	-2.01	
			<i>For >250 To 500, Deduct</i>	-2.51	
			<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0583	EA		5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.26	
			<i>For >100 To 250, Deduct</i>	-2.05	
			<i>For >250 To 500, Deduct</i>	-2.56	
			<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0584	EA		5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.93	
			<i>For >100 To 250, Deduct</i>	-2.05	
			<i>For >250 To 500, Deduct</i>	-2.56	
			<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0585	EA		5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.23	
			<i>For >100 To 250, Deduct</i>	-2.05	
			<i>For >250 To 500, Deduct</i>	-2.56	
			<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0586	EA		5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.77	
			<i>For >100 To 250, Deduct</i>	-2.09	
			<i>For >250 To 500, Deduct</i>	-2.62	
			<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0587	EA		5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.09	
			<i>For >100 To 250, Deduct</i>	-2.09	
			<i>For >250 To 500, Deduct</i>	-2.62	
			<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0588	EA		5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.76	
			<i>For >100 To 250, Deduct</i>	-2.09	
			<i>For >250 To 500, Deduct</i>	-2.62	
			<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0589	EA		5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.56	
			<i>For >100 To 250, Deduct</i>	-2.14	
			<i>For >250 To 500, Deduct</i>	-2.67	
			<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0590	EA		5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.32	
			<i>For >100 To 250, Deduct</i>	-2.14	
			<i>For >250 To 500, Deduct</i>	-2.67	
			<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0591	EA		5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.63	
			<i>For >100 To 250, Deduct</i>	-2.14	
			<i>For >250 To 500, Deduct</i>	-2.67	
			<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0592	EA		5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.19	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0593	EA		5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.68	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0594	EA		5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.79	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0595	EA		5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.18	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0596			3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0597	EA		3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.90	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0598 EA 3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.04	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0599 EA 3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.13	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0600 EA 3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.54	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.51	
For>500, Deduct	-3.01	
05 05 23 00-0601 EA 3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.82	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.51	
For>500, Deduct	-3.01	
05 05 23 00-0602 EA 3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.63	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.51	
For>500, Deduct	-3.01	
05 05 23 00-0603 EA 3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.18	
For>100 To 250, Deduct	-2.05	
For>250 To 500, Deduct	-2.56	
For>500, Deduct	-3.08	
05 05 23 00-0604 EA 3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.25	
For>100 To 250, Deduct	-2.05	
For>250 To 500, Deduct	-2.56	
For>500, Deduct	-3.08	
05 05 23 00-0605 EA 3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.35	
For>100 To 250, Deduct	-2.05	
For>250 To 500, Deduct	-2.56	
For>500, Deduct	-3.08	
05 05 23 00-0606 EA 3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.97	
For>100 To 250, Deduct	-2.09	
For>250 To 500, Deduct	-2.62	
For>500, Deduct	-3.14	
05 05 23 00-0607 EA 3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.55	
For>100 To 250, Deduct	-2.09	
For>250 To 500, Deduct	-2.62	
For>500, Deduct	-3.14	
05 05 23 00-0608 EA 3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.62	
For>100 To 250, Deduct	-2.09	
For>250 To 500, Deduct	-2.62	
For>500, Deduct	-3.14	
05 05 23 00-0609 EA 3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.16	
For>100 To 250, Deduct	-2.14	
For>250 To 500, Deduct	-2.67	
For>500, Deduct	-3.21	
05 05 23 00-0610 EA 3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.73	
For>100 To 250, Deduct	-2.14	
For>250 To 500, Deduct	-2.67	
For>500, Deduct	-3.21	
05 05 23 00-0611 EA 3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.03	
For>100 To 250, Deduct	-2.14	
For>250 To 500, Deduct	-2.67	
For>500, Deduct	-3.21	
05 05 23 00-0612 EA 3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.66	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-2.73	
For>500, Deduct	-3.27	
05 05 23 00-0613 EA 3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.70	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-2.73	
For>500, Deduct	-3.27	
05 05 23 00-0614 EA 3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.45	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-2.73	
For>500, Deduct	-3.27	
05 05 23 00-0615 EA 3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.73	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-2.73	
For>500, Deduct	-3.27	
05 05 23 00-0616 7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)	14.93	
EA 7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.93	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-2.73	
For>500, Deduct	-3.27	
05 05 23 00-0618 EA 7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.29	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-2.73	
For>500, Deduct	-3.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0619 EA 7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.05	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0620 EA 7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.11	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0621 EA 7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.24	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0622 EA 7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.68	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0623 EA 7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.26	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0624 EA 7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.92	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0625 EA 7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.66	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0626 EA 7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.62	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0627 EA 7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	26.12	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0628 EA 7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.17	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-2.95	
<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0629 EA 7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	29.73	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-2.95	
<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0630 EA 7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.77	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-2.95	
<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0631 EA 7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	31.82	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0632 EA 7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.12	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0633 EA 7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	32.38	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0634 EA 7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.99	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
 05 05 23 00-0635 1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0636 EA 1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.95	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0637 EA 1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.84	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0638 EA 1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.46	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0639 EA 1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.13	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0640 EA 1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.38	
For>100 To 250, Deduct	-2.23	
For>250 To 500, Deduct	-2.78	
For>500, Deduct	-3.34	
05 05 23 00-0641 EA 1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.93	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.41	
05 05 23 00-0642 EA 1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.01	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.41	
05 05 23 00-0643 EA 1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.45	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.41	
05 05 23 00-0644 EA 1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.33	
For>100 To 250, Deduct	-2.31	
For>250 To 500, Deduct	-2.89	
For>500, Deduct	-3.47	
05 05 23 00-0645 EA 1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.94	
For>100 To 250, Deduct	-2.31	
For>250 To 500, Deduct	-2.89	
For>500, Deduct	-3.47	
05 05 23 00-0646 EA 1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	26.95	
For>100 To 250, Deduct	-2.31	
For>250 To 500, Deduct	-2.89	
For>500, Deduct	-3.47	
05 05 23 00-0647 EA 1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.63	
For>100 To 250, Deduct	-2.36	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-3.53	
05 05 23 00-0648 EA 1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	31.03	
For>100 To 250, Deduct	-2.36	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-3.53	
05 05 23 00-0649 EA 1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	31.61	
For>100 To 250, Deduct	-2.36	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-3.53	
05 05 23 00-0650 EA 1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	33.64	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-0651 EA 1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	34.62	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-0652 EA 1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	37.21	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-0653 EA 1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	38.79	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-0654 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0655 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0656 EA 1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.90	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0657 EA 1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.91	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0658 EA 1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.93	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0659 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.11	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0660 EA 1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.42	
For>100 To 250, Deduct	-1.57	
For>250 To 500, Deduct	-1.97	
For>500, Deduct	-2.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0661 EA 1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.53	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0662 EA 1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.57	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0663 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.79	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0664 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.92	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0665 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.96	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0666 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.27	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0667 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.38	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0668 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.42	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0669 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.74	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0670 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.05	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0671 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.44	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0672 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0673 EA 5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.81	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0674 EA 5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.17	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0675 EA 5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.20	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0676 EA 5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.21	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0677 EA 5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.59	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0678 EA 5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.93	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0679 EA 5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.99	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0680 EA 5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.29	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0681 EA 5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.32	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0682	EA		5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.59	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0683	EA		5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.88	
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0684	EA		5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.98	
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0685	EA		5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.24	
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0686	EA		5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.97	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0687	EA		5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.38	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0688	EA		5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.76	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0689 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts					
<small>(05 05 23 00-0654)</small>					
05 05 23 00-0690	EA		3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.92	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0691	EA		3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.01	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0692	EA		3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.09	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0693	EA		3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.31	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0694	EA		3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.62	
			<i>For >100 To 250, Deduct</i>	-1.57	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0695	EA		3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.80	
			<i>For >100 To 250, Deduct</i>	-1.57	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0696	EA		3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.93	
			<i>For >100 To 250, Deduct</i>	-1.57	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0697	EA		3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.31	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0698	EA		3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.40	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0699	EA		3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.62	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0700	EA		3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.93	
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0701	EA		3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.23	
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0702	EA		3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.28	
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.49	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 05 23	00-0703	EA	3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.52	
				<i>For >100 To 250, Deduct</i>	-1.70	
				<i>For >250 To 500, Deduct</i>	-2.13	
				<i>For >500, Deduct</i>	-2.55	
	05 05 23	00-0704	EA	3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.55	
				<i>For >100 To 250, Deduct</i>	-1.70	
				<i>For >250 To 500, Deduct</i>	-2.13	
				<i>For >500, Deduct</i>	-2.55	
	05 05 23	00-0705	EA	3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.90	
				<i>For >100 To 250, Deduct</i>	-1.70	
				<i>For >250 To 500, Deduct</i>	-2.13	
				<i>For >500, Deduct</i>	-2.55	
	05 05 23	00-0706		7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
	05 05 23	00-0707	EA	7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.54	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
	05 05 23	00-0708	EA	7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.92	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
	05 05 23	00-0709	EA	7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.22	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
	05 05 23	00-0710	EA	7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.94	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
	05 05 23	00-0711	EA	7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.96	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
	05 05 23	00-0712	EA	7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.99	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
	05 05 23	00-0713	EA	7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.46	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
	05 05 23	00-0714	EA	7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.74	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
	05 05 23	00-0715	EA	7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.98	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
	05 05 23	00-0716	EA	7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.48	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
	05 05 23	00-0717	EA	7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.77	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
	05 05 23	00-0718		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
	05 05 23	00-0719	EA	1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.36	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
	05 05 23	00-0720	EA	1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.49	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
	05 05 23	00-0721	EA	1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.74	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
	05 05 23	00-0722	EA	1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.25	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
	05 05 23	00-0723	EA	1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.45	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0724	EA	1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.81	
		<i>For >100 To 250, Deduct</i>	-1.79	
		<i>For >250 To 500, Deduct</i>	-2.24	
		<i>For >500, Deduct</i>	-2.68	
05 05 23 00-0725	EA	1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.09	
		<i>For >100 To 250, Deduct</i>	-1.83	
		<i>For >250 To 500, Deduct</i>	-2.29	
		<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0726	EA	1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.22	
		<i>For >100 To 250, Deduct</i>	-1.83	
		<i>For >250 To 500, Deduct</i>	-2.29	
		<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0727	EA	1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.51	
		<i>For >100 To 250, Deduct</i>	-1.83	
		<i>For >250 To 500, Deduct</i>	-2.29	
		<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0728	EA	1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.86	
		<i>For >100 To 250, Deduct</i>	-1.88	
		<i>For >250 To 500, Deduct</i>	-2.35	
		<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0729	EA	1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.18	
		<i>For >100 To 250, Deduct</i>	-1.88	
		<i>For >250 To 500, Deduct</i>	-2.35	
		<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0730	EA	1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.21	
		<i>For >100 To 250, Deduct</i>	-1.88	
		<i>For >250 To 500, Deduct</i>	-2.35	
		<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0731	EA	1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.49	
		<i>For >100 To 250, Deduct</i>	-1.92	
		<i>For >250 To 500, Deduct</i>	-2.40	
		<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0732	EA	1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.58	
		<i>For >100 To 250, Deduct</i>	-1.92	
		<i>For >250 To 500, Deduct</i>	-2.40	
		<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0733	EA	1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.82	
		<i>For >100 To 250, Deduct</i>	-1.92	
		<i>For >250 To 500, Deduct</i>	-2.40	
		<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0734	EA	1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.19	
		<i>For >100 To 250, Deduct</i>	-1.96	
		<i>For >250 To 500, Deduct</i>	-2.46	
		<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0735	EA	1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.39	
		<i>For >100 To 250, Deduct</i>	-1.96	
		<i>For >250 To 500, Deduct</i>	-2.46	
		<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0736	EA	1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.43	
		<i>For >100 To 250, Deduct</i>	-1.96	
		<i>For >250 To 500, Deduct</i>	-2.46	
		<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0737	EA	1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.54	
		<i>For >100 To 250, Deduct</i>	-1.96	
		<i>For >250 To 500, Deduct</i>	-2.46	
		<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0738		5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex		
		Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0739	EA	5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.92	
		<i>For >100 To 250, Deduct</i>	-1.96	
		<i>For >250 To 500, Deduct</i>	-2.46	
		<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0740	EA	5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.11	
		<i>For >100 To 250, Deduct</i>	-1.96	
		<i>For >250 To 500, Deduct</i>	-2.46	
		<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0741	EA	5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.25	
		<i>For >100 To 250, Deduct</i>	-1.96	
		<i>For >250 To 500, Deduct</i>	-2.46	
		<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0742	EA	5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.68	
		<i>For >100 To 250, Deduct</i>	-2.01	
		<i>For >250 To 500, Deduct</i>	-2.51	
		<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0743	EA	5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.97	
		<i>For >100 To 250, Deduct</i>	-2.01	
		<i>For >250 To 500, Deduct</i>	-2.51	
		<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0744	EA	5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.61	
		<i>For >100 To 250, Deduct</i>	-2.01	
		<i>For >250 To 500, Deduct</i>	-2.51	
		<i>For >500, Deduct</i>	-3.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0745 EA 5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.92	
<i>For >100 To 250, Deduct</i>	-2.05	
<i>For >250 To 500, Deduct</i>	-2.56	
<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0746 EA 5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.03	
<i>For >100 To 250, Deduct</i>	-2.05	
<i>For >250 To 500, Deduct</i>	-2.56	
<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0747 EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.23	
<i>For >100 To 250, Deduct</i>	-2.05	
<i>For >250 To 500, Deduct</i>	-2.56	
<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0748 EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.70	
<i>For >100 To 250, Deduct</i>	-2.09	
<i>For >250 To 500, Deduct</i>	-2.62	
<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0749 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.93	
<i>For >100 To 250, Deduct</i>	-2.09	
<i>For >250 To 500, Deduct</i>	-2.62	
<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0750 EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.59	
<i>For >100 To 250, Deduct</i>	-2.09	
<i>For >250 To 500, Deduct</i>	-2.62	
<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0751 EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.85	
<i>For >100 To 250, Deduct</i>	-2.14	
<i>For >250 To 500, Deduct</i>	-2.67	
<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0752 EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.00	
<i>For >100 To 250, Deduct</i>	-2.14	
<i>For >250 To 500, Deduct</i>	-2.67	
<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0753 EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.34	
<i>For >100 To 250, Deduct</i>	-2.14	
<i>For >250 To 500, Deduct</i>	-2.67	
<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0754 EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.03	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0755 EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.57	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0756 EA 5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.81	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0757 EA 5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.91	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0758 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0759 EA 3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.85	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0760 EA 3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.89	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0761 EA 3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.13	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0762 EA 3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.88	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.51	
<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0763 EA 3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.78	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.51	
<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0764 EA 3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.35	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.51	
<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0765 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.87	
<i>For >100 To 250, Deduct</i>	-2.05	
<i>For >250 To 500, Deduct</i>	-2.56	
<i>For >500, Deduct</i>	-3.08	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0766 EA 3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.92	
For>100 To 250, Deduct	-2.05	
For>250 To 500, Deduct	-2.56	
For>500, Deduct	-3.08	
05 05 23 00-0767 EA 3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.04	
For>100 To 250, Deduct	-2.05	
For>250 To 500, Deduct	-2.56	
For>500, Deduct	-3.08	
05 05 23 00-0768 EA 3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.35	
For>100 To 250, Deduct	-2.09	
For>250 To 500, Deduct	-2.62	
For>500, Deduct	-3.14	
05 05 23 00-0769 EA 3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.11	
For>100 To 250, Deduct	-2.09	
For>250 To 500, Deduct	-2.62	
For>500, Deduct	-3.14	
05 05 23 00-0770 EA 3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.42	
For>100 To 250, Deduct	-2.09	
For>250 To 500, Deduct	-2.62	
For>500, Deduct	-3.14	
05 05 23 00-0771 EA 3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.26	
For>100 To 250, Deduct	-2.14	
For>250 To 500, Deduct	-2.67	
For>500, Deduct	-3.21	
05 05 23 00-0772 EA 3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.36	
For>100 To 250, Deduct	-2.14	
For>250 To 500, Deduct	-2.67	
For>500, Deduct	-3.21	
05 05 23 00-0773 EA 3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.67	
For>100 To 250, Deduct	-2.14	
For>250 To 500, Deduct	-2.67	
For>500, Deduct	-3.21	
05 05 23 00-0774 EA 3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.34	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-2.73	
For>500, Deduct	-3.27	
05 05 23 00-0775 EA 3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.67	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-2.73	
For>500, Deduct	-3.27	
05 05 23 00-0776 EA 3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.86	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-2.73	
For>500, Deduct	-3.27	
05 05 23 00-0777 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.95	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-2.73	
For>500, Deduct	-3.27	
05 05 23 00-0778 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0779 EA 7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.79	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-2.73	
For>500, Deduct	-3.27	
05 05 23 00-0780 EA 7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.16	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-2.73	
For>500, Deduct	-3.27	
05 05 23 00-0781 EA 7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.60	
For>100 To 250, Deduct	-2.23	
For>250 To 500, Deduct	-2.78	
For>500, Deduct	-3.34	
05 05 23 00-0782 EA 7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.51	
For>100 To 250, Deduct	-2.23	
For>250 To 500, Deduct	-2.78	
For>500, Deduct	-3.34	
05 05 23 00-0783 EA 7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.80	
For>100 To 250, Deduct	-2.23	
For>250 To 500, Deduct	-2.78	
For>500, Deduct	-3.34	
05 05 23 00-0784 EA 7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.39	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.41	
05 05 23 00-0785 EA 7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.79	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.41	
05 05 23 00-0786 EA 7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.31	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0787 EA 7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.87	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0788 EA 7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.27	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0789 EA 7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.45	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0790 EA 7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.11	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-2.95	
<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0791 EA 7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.85	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-2.95	
<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0792 EA 7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.02	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-2.95	
<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0793 EA 7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.45	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0794 EA 7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.86	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0795 EA 7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.37	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0796 EA 7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.85	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	

05 05 23 00-0797 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)

05 05 23 00-0798 EA 1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.37	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0799 EA 1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.71	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0800 EA 1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.40	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0801 EA 1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.94	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0802 EA 1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.40	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0803 EA 1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.68	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0804 EA 1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.48	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0805 EA 1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.77	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0806 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.07	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0807 EA 1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.79	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0808 EA 1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.52	
For>100 To 250, Deduct	-2.36	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-3.53	
05 05 23 00-0809 EA 1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.66	
For>100 To 250, Deduct	-2.36	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-3.53	
05 05 23 00-0810 EA 1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.79	
For>100 To 250, Deduct	-2.36	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-3.53	
05 05 23 00-0811 EA 1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.35	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-0812 EA 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.26	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-0813 EA 1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.96	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-0814 EA 1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.99	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-0815 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0816 1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0817 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.88	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0818 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.98	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0819 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.10	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0820 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.23	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0821 EA 1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.58	
For>100 To 250, Deduct	-1.57	
For>250 To 500, Deduct	-1.97	
For>500, Deduct	-2.36	
05 05 23 00-0822 EA 1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.77	
For>100 To 250, Deduct	-1.57	
For>250 To 500, Deduct	-1.97	
For>500, Deduct	-2.36	
05 05 23 00-0823 EA 1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.00	
For>100 To 250, Deduct	-1.57	
For>250 To 500, Deduct	-1.97	
For>500, Deduct	-2.36	
05 05 23 00-0824 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.38	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.02	
For>500, Deduct	-2.42	
05 05 23 00-0825 EA 1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.66	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.02	
For>500, Deduct	-2.42	
05 05 23 00-0826 EA 1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.91	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.02	
For>500, Deduct	-2.42	
05 05 23 00-0827 EA 1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	10.34	
For>100 To 250, Deduct	-1.66	
For>250 To 500, Deduct	-2.07	
For>500, Deduct	-2.49	
05 05 23 00-0828 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	10.76	
For>100 To 250, Deduct	-1.66	
For>250 To 500, Deduct	-2.07	
For>500, Deduct	-2.49	
05 05 23 00-0829 EA 1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	15.83	
For>100 To 250, Deduct	-1.66	
For>250 To 500, Deduct	-2.07	
For>500, Deduct	-2.49	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0830	EA		1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.53	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0831	EA		1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.77	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0832	EA		1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.33	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0833			5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0834	EA		5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.06	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0835	EA		5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.15	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0836	EA		5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.33	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0837	EA		5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.48	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0838	EA		5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.96	
			<i>For >100 To 250, Deduct</i>	-1.57	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0839	EA		5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.05	
			<i>For >100 To 250, Deduct</i>	-1.57	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0840	EA		5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.53	
			<i>For >100 To 250, Deduct</i>	-1.57	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.36	
05 05 23 00-0841	EA		5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.07	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0842	EA		5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.60	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0843	EA		5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.86	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.42	
05 05 23 00-0844	EA		5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.89	
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0845	EA		5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.21	
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0846	EA		5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.23	
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.49	
05 05 23 00-0847	EA		5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.33	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0848			3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0849	EA		3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.29	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0850	EA		3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.40	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0851 EA 3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.68	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0852 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.04	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0853 EA 3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.45	
For>100 To 250, Deduct	-1.57	
For>250 To 500, Deduct	-1.97	
For>500, Deduct	-2.36	
05 05 23 00-0854 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.74	
For>100 To 250, Deduct	-1.57	
For>250 To 500, Deduct	-1.97	
For>500, Deduct	-2.36	
05 05 23 00-0855 EA 3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.12	
For>100 To 250, Deduct	-1.57	
For>250 To 500, Deduct	-1.97	
For>500, Deduct	-2.36	
05 05 23 00-0856 EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.68	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.02	
For>500, Deduct	-2.42	
05 05 23 00-0857 EA 3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.13	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.02	
For>500, Deduct	-2.42	
05 05 23 00-0858 EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.12	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.02	
For>500, Deduct	-2.42	
05 05 23 00-0859 EA 3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.46	
For>100 To 250, Deduct	-1.66	
For>250 To 500, Deduct	-2.07	
For>500, Deduct	-2.49	
05 05 23 00-0860 EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.28	
For>100 To 250, Deduct	-1.66	
For>250 To 500, Deduct	-2.07	
For>500, Deduct	-2.49	
05 05 23 00-0861 EA 3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.03	
For>100 To 250, Deduct	-1.66	
For>250 To 500, Deduct	-2.07	
For>500, Deduct	-2.49	
05 05 23 00-0862 EA 3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.66	
For>100 To 250, Deduct	-1.70	
For>250 To 500, Deduct	-2.13	
For>500, Deduct	-2.55	
05 05 23 00-0863 EA 3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.91	
For>100 To 250, Deduct	-1.70	
For>250 To 500, Deduct	-2.13	
For>500, Deduct	-2.55	
05 05 23 00-0864 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.65	
For>100 To 250, Deduct	-1.70	
For>250 To 500, Deduct	-2.13	
For>500, Deduct	-2.55	
05 05 23 00-0865 7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0866 EA 7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.29	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.18	
For>500, Deduct	-2.62	
05 05 23 00-0867 EA 7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.41	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.18	
For>500, Deduct	-2.62	
05 05 23 00-0868 EA 7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.88	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.18	
For>500, Deduct	-2.62	
05 05 23 00-0869 EA 7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.37	
For>100 To 250, Deduct	-1.79	
For>250 To 500, Deduct	-2.24	
For>500, Deduct	-2.68	
05 05 23 00-0870 EA 7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.93	
For>100 To 250, Deduct	-1.79	
For>250 To 500, Deduct	-2.24	
For>500, Deduct	-2.68	
05 05 23 00-0871 EA 7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.86	
For>100 To 250, Deduct	-1.79	
For>250 To 500, Deduct	-2.24	
For>500, Deduct	-2.68	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0872	EA			7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.50 -1.83 -2.29 -2.75	
05 05 23 00-0873	EA			7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	14.59 -1.83 -2.29 -2.75	
05 05 23 00-0874	EA			7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.06 -1.83 -2.29 -2.75	
05 05 23 00-0875	EA			7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	16.76 -1.88 -2.35 -2.81	
05 05 23 00-0876	EA			7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	18.42 -1.88 -2.35 -2.81	
05 05 23 00-0877	EA			7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	18.64 -1.88 -2.35 -2.81	
05 05 23 00-0878	EA			7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	19.06 -1.92 -2.40 -2.88	
05 05 23 00-0879				1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0875)</small>		
05 05 23 00-0880	EA			1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.28 -1.74 -2.18 -2.62	
05 05 23 00-0881	EA			1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.41 -1.74 -2.18 -2.62	
05 05 23 00-0882	EA			1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.14 -1.74 -2.18 -2.62	
05 05 23 00-0883	EA			1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.65 -1.79 -2.24 -2.68	
05 05 23 00-0884	EA			1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.31 -1.79 -2.24 -2.68	
05 05 23 00-0885	EA			1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.67 -1.79 -2.24 -2.68	
05 05 23 00-0886	EA			1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.33 -1.83 -2.29 -2.75	
05 05 23 00-0887	EA			1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.65 -1.83 -2.29 -2.75	
05 05 23 00-0888	EA			1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.38 -1.83 -2.29 -2.75	
05 05 23 00-0889	EA			1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	16.08 -1.88 -2.35 -2.81	
05 05 23 00-0890	EA			1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	16.86 -1.88 -2.35 -2.81	
05 05 23 00-0891	EA			1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.74 -1.88 -2.35 -2.81	
05 05 23 00-0892	EA			1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	19.27 -1.92 -2.40 -2.88	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0893 EA 1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.80	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0894 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.64	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0895 EA 1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.93	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0896 EA 1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.26	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0897 EA 1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.57	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0898 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.85	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0899 9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0900 EA 9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.09	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.18	
For>500, Deduct	-2.62	
05 05 23 00-0901 EA 9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.60	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.18	
For>500, Deduct	-2.62	
05 05 23 00-0902 EA 9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.25	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.18	
For>500, Deduct	-2.62	
05 05 23 00-0903 EA 9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.00	
For>100 To 250, Deduct	-1.79	
For>250 To 500, Deduct	-2.24	
For>500, Deduct	-2.68	
05 05 23 00-0904 EA 9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.94	
For>100 To 250, Deduct	-1.79	
For>250 To 500, Deduct	-2.24	
For>500, Deduct	-2.68	
05 05 23 00-0905 EA 9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.58	
For>100 To 250, Deduct	-1.79	
For>250 To 500, Deduct	-2.24	
For>500, Deduct	-2.68	
05 05 23 00-0906 EA 9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.21	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.75	
05 05 23 00-0907 EA 9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.58	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.75	
05 05 23 00-0908 EA 9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.04	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.75	
05 05 23 00-0909 EA 9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.89	
For>100 To 250, Deduct	-1.88	
For>250 To 500, Deduct	-2.35	
For>500, Deduct	-2.81	
05 05 23 00-0910 EA 9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.74	
For>100 To 250, Deduct	-1.88	
For>250 To 500, Deduct	-2.35	
For>500, Deduct	-2.81	
05 05 23 00-0911 5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0912 EA 5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.67	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0913 EA 5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.01	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0914 EA 5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.45	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0915 EA 5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.91	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.51	
<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0916 EA 5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.60	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.51	
<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0917 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.58	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.51	
<i>For >500, Deduct</i>	-3.01	
05 05 23 00-0918 EA 5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.02	
<i>For >100 To 250, Deduct</i>	-2.05	
<i>For >250 To 500, Deduct</i>	-2.56	
<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0919 EA 5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.03	
<i>For >100 To 250, Deduct</i>	-2.05	
<i>For >250 To 500, Deduct</i>	-2.56	
<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0920 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.13	
<i>For >100 To 250, Deduct</i>	-2.05	
<i>For >250 To 500, Deduct</i>	-2.56	
<i>For >500, Deduct</i>	-3.08	
05 05 23 00-0921 EA 5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.97	
<i>For >100 To 250, Deduct</i>	-2.09	
<i>For >250 To 500, Deduct</i>	-2.62	
<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0922 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.96	
<i>For >100 To 250, Deduct</i>	-2.09	
<i>For >250 To 500, Deduct</i>	-2.62	
<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0923 EA 5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.59	
<i>For >100 To 250, Deduct</i>	-2.09	
<i>For >250 To 500, Deduct</i>	-2.62	
<i>For >500, Deduct</i>	-3.14	
05 05 23 00-0924 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.79	
<i>For >100 To 250, Deduct</i>	-2.14	
<i>For >250 To 500, Deduct</i>	-2.67	
<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0925 EA 5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.44	
<i>For >100 To 250, Deduct</i>	-2.14	
<i>For >250 To 500, Deduct</i>	-2.67	
<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0926 EA 5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.18	
<i>For >100 To 250, Deduct</i>	-2.14	
<i>For >250 To 500, Deduct</i>	-2.67	
<i>For >500, Deduct</i>	-3.21	
05 05 23 00-0927 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.42	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0928 EA 5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.38	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0929 EA 5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.70	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0930 EA 5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.47	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0931 3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0932 EA 3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.24	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0933 EA 3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.91	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0934 EA 3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.80	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0935 EA 3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.99	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0936 EA 3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.97	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0937 EA 3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.62	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0938 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.81	
For >100 To 250, Deduct	-2.05	
For >250 To 500, Deduct	-2.56	
For >500, Deduct	-3.08	
05 05 23 00-0939 EA 3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.35	
For >100 To 250, Deduct	-2.05	
For >250 To 500, Deduct	-2.56	
For >500, Deduct	-3.08	
05 05 23 00-0940 EA 3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.58	
For >100 To 250, Deduct	-2.05	
For >250 To 500, Deduct	-2.56	
For >500, Deduct	-3.08	
05 05 23 00-0941 EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.07	
For >100 To 250, Deduct	-2.09	
For >250 To 500, Deduct	-2.62	
For >500, Deduct	-3.14	
05 05 23 00-0942 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.50	
For >100 To 250, Deduct	-2.09	
For >250 To 500, Deduct	-2.62	
For >500, Deduct	-3.14	
05 05 23 00-0943 EA 3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.18	
For >100 To 250, Deduct	-2.09	
For >250 To 500, Deduct	-2.62	
For >500, Deduct	-3.14	
05 05 23 00-0944 EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.53	
For >100 To 250, Deduct	-2.14	
For >250 To 500, Deduct	-2.67	
For >500, Deduct	-3.21	
05 05 23 00-0945 EA 3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.81	
For >100 To 250, Deduct	-2.14	
For >250 To 500, Deduct	-2.67	
For >500, Deduct	-3.21	
05 05 23 00-0946 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.68	
For >100 To 250, Deduct	-2.14	
For >250 To 500, Deduct	-2.67	
For >500, Deduct	-3.21	
05 05 23 00-0947 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.11	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	
05 05 23 00-0948 EA 3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.88	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	
05 05 23 00-0949 EA 3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	46.96	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	
05 05 23 00-0950 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	48.56	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	
05 05 23 00-0951 7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0952 EA 7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.55	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	
05 05 23 00-0953 EA 7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.24	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	
05 05 23 00-0954 EA 7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.75	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.78	
For >500, Deduct	-3.34	
05 05 23 00-0955 EA 7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.46	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.78	
For >500, Deduct	-3.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0956 EA 7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.01	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0957 EA 7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.63	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0958 EA 7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.18	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0959 EA 7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.90	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0960 EA 7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.66	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0961 EA 7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.09	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0962 EA 7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.96	
<i>For >100 To 250, Deduct</i>	-2.31	
<i>For >250 To 500, Deduct</i>	-2.89	
<i>For >500, Deduct</i>	-3.47	
05 05 23 00-0963 EA 7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.20	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-2.95	
<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0964 EA 7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	47.73	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-2.95	
<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0965 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	50.58	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-2.95	
<i>For >500, Deduct</i>	-3.53	
05 05 23 00-0966 EA 7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	59.44	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0967 EA 7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	66.36	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0968 EA 7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	69.56	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0969 EA 7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	72.75	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.00	
<i>For >500, Deduct</i>	-3.60	
05 05 23 00-0970 1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0971 EA 1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.63	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0972 EA 1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.86	
<i>For >100 To 250, Deduct</i>	-2.18	
<i>For >250 To 500, Deduct</i>	-2.73	
<i>For >500, Deduct</i>	-3.27	
05 05 23 00-0973 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.92	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0974 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.47	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0975 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.01	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.78	
<i>For >500, Deduct</i>	-3.34	
05 05 23 00-0976 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.08	
<i>For >100 To 250, Deduct</i>	-2.27	
<i>For >250 To 500, Deduct</i>	-2.84	
<i>For >500, Deduct</i>	-3.41	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0977 EA 1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.86	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.41	
05 05 23 00-0978 EA 1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.48	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.41	
05 05 23 00-0979 EA 1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	41.15	
For>100 To 250, Deduct	-2.31	
For>250 To 500, Deduct	-2.89	
For>500, Deduct	-3.47	
05 05 23 00-0980 EA 1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	41.29	
For>100 To 250, Deduct	-2.31	
For>250 To 500, Deduct	-2.89	
For>500, Deduct	-3.47	
05 05 23 00-0981 EA 1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	48.32	
For>100 To 250, Deduct	-2.31	
For>250 To 500, Deduct	-2.89	
For>500, Deduct	-3.47	
05 05 23 00-0982 EA 1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	57.43	
For>100 To 250, Deduct	-2.36	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-3.53	
05 05 23 00-0983 EA 1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	58.76	
For>100 To 250, Deduct	-2.36	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-3.53	
05 05 23 00-0984 EA 1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	60.08	
For>100 To 250, Deduct	-2.36	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-3.53	
05 05 23 00-0985 EA 1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	62.95	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-0986 EA 1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	67.01	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-0987 EA 1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	85.44	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-0988 EA 1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	106.92	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-0989 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0997)</small>		
05 05 23 00-0990 1/4" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0989)</small>		
05 05 23 00-0991 EA 1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.07	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0992 EA 1" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.26	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0993 EA 1-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.40	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0994 EA 2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.50	
For>100 To 250, Deduct	-1.53	
For>250 To 500, Deduct	-1.91	
For>500, Deduct	-2.29	
05 05 23 00-0995 EA 2-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.00	
For>100 To 250, Deduct	-1.57	
For>250 To 500, Deduct	-1.97	
For>500, Deduct	-2.36	
05 05 23 00-0996 EA 3" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.25	
For>100 To 250, Deduct	-1.57	
For>250 To 500, Deduct	-1.97	
For>500, Deduct	-2.36	
05 05 23 00-0997 EA 3-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.50	
For>100 To 250, Deduct	-1.57	
For>250 To 500, Deduct	-1.97	
For>500, Deduct	-2.36	
05 05 23 00-0998 EA 4" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.91	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.02	
For>500, Deduct	-2.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0999 EA 4-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.12	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-1000 EA 5" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.21	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-1001 EA 5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	11.08	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-1002 EA 6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	11.25	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-1003 EA 6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	17.71	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-1004 EA 7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	25.75	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1005 EA 7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	42.98	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1006 EA 8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	46.91	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1007 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0999)		
05 05 23 00-1008 EA 5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.33	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-1009 EA 5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	8.55	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-1010 EA 5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.92	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-1011 EA 5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	9.20	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-1012 EA 5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.54	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-1013 EA 5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	10.11	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-1014 EA 5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.51	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.36	
05 05 23 00-1015 EA 5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	10.89	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-1016 EA 5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.74	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-1017 EA 5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	11.91	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.42	
05 05 23 00-1018 EA 5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.72	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	
05 05 23 00-1019 EA 5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	13.38	
<i>For >100 To 250, Deduct</i>	-1.66	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.49	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1020 EA 5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.88	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.49	
05 05 23 00-1021 EA 5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	26.90	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-1022 3/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1023 EA 3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.92	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-1024 EA 3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	9.00	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-1025 EA 3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.35	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-1026 EA 3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	10.17	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-1027 EA 3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.68	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.36	
05 05 23 00-1028 EA 3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	10.82	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.36	
05 05 23 00-1029 EA 3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.54	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.36	
05 05 23 00-1030 EA 3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	11.85	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.42	
05 05 23 00-1031 EA 3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.30	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.42	
05 05 23 00-1032 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	12.61	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.42	
05 05 23 00-1033 EA 3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.82	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.49	
05 05 23 00-1034 EA 3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	15.03	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.49	
05 05 23 00-1035 EA 3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.08	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.49	
05 05 23 00-1036 EA 3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	18.36	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-1037 EA 3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.33	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-1038 EA 3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	28.70	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-1039 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1040 EA 7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	11.37	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.18	
For >500, Deduct	-2.62	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1041	EA			7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.88	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1042	EA			7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	12.85	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1043	EA			7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.90	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
05 05 23 00-1044	EA			7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	14.83	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
05 05 23 00-1045	EA			7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.35	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
05 05 23 00-1046	EA			7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	18.03	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1047	EA			7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.29	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1048	EA			7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	18.85	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1049	EA			7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.44	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-1050	EA			7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	19.83	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-1051	EA			7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.23	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-1052	EA			7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	20.77	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-1053				1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1054	EA			1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	11.34	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1055	EA			1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.90	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1056	EA			1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	12.68	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.18	
				<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1057	EA			1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.82	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
05 05 23 00-1058	EA			1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	14.68	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
05 05 23 00-1059	EA			1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.89	
				<i>For >100 To 250, Deduct</i>	-1.79	
				<i>For >250 To 500, Deduct</i>	-2.24	
				<i>For >500, Deduct</i>	-2.68	
05 05 23 00-1060	EA			1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	15.47	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1061	EA			1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.13	
				<i>For >100 To 250, Deduct</i>	-1.83	
				<i>For >250 To 500, Deduct</i>	-2.29	
				<i>For >500, Deduct</i>	-2.75	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1062 EA 1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	20.49	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.75	
05 05 23 00-1063 EA 1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.96	
For>100 To 250, Deduct	-1.88	
For>250 To 500, Deduct	-2.35	
For>500, Deduct	-2.81	
05 05 23 00-1064 EA 1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	21.49	
For>100 To 250, Deduct	-1.88	
For>250 To 500, Deduct	-2.35	
For>500, Deduct	-2.81	
05 05 23 00-1065 EA 1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.64	
For>100 To 250, Deduct	-1.88	
For>250 To 500, Deduct	-2.35	
For>500, Deduct	-2.81	
05 05 23 00-1066 EA 1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	28.64	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-1067 EA 1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.44	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-1068 EA 1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	33.42	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-1069 EA 1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.51	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-1070 EA 1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	46.59	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-1071 EA 1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	47.43	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-1072 EA 1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	48.72	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-1073 9/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1074 EA 9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	25.26	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.18	
For>500, Deduct	-2.62	
05 05 23 00-1075 EA 9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.09	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.18	
For>500, Deduct	-2.62	
05 05 23 00-1076 EA 9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	33.20	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.18	
For>500, Deduct	-2.62	
05 05 23 00-1077 EA 9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	36.85	
For>100 To 250, Deduct	-1.79	
For>250 To 500, Deduct	-2.24	
For>500, Deduct	-2.68	
05 05 23 00-1078 EA 9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	40.46	
For>100 To 250, Deduct	-1.79	
For>250 To 500, Deduct	-2.24	
For>500, Deduct	-2.68	
05 05 23 00-1079 EA 9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	44.07	
For>100 To 250, Deduct	-1.79	
For>250 To 500, Deduct	-2.24	
For>500, Deduct	-2.68	
05 05 23 00-1080 EA 9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	46.54	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.75	
05 05 23 00-1081 EA 9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	49.52	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.75	
05 05 23 00-1082 EA 9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	52.17	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.75	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 05 23	00-1083	EA	9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	53.18	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
	05 05 23	00-1084	EA	9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	55.51	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23	00-1085	5/8" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0989)</small>				
	05 05 23	00-1086	EA	5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	15.27	
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
	05 05 23	00-1087	EA	5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.43	
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
	05 05 23	00-1088	EA	5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	15.48	
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
	05 05 23	00-1089	EA	5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.75	
				<i>For >100 To 250, Deduct</i>	-2.01	
				<i>For >250 To 500, Deduct</i>	-2.51	
				<i>For >500, Deduct</i>	-3.01	
	05 05 23	00-1090	EA	5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	17.82	
				<i>For >100 To 250, Deduct</i>	-2.01	
				<i>For >250 To 500, Deduct</i>	-2.51	
				<i>For >500, Deduct</i>	-3.01	
	05 05 23	00-1091	EA	5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.22	
				<i>For >100 To 250, Deduct</i>	-2.01	
				<i>For >250 To 500, Deduct</i>	-2.51	
				<i>For >500, Deduct</i>	-3.01	
	05 05 23	00-1092	EA	5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	22.15	
				<i>For >100 To 250, Deduct</i>	-2.05	
				<i>For >250 To 500, Deduct</i>	-2.56	
				<i>For >500, Deduct</i>	-3.08	
	05 05 23	00-1093	EA	5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.12	
				<i>For >100 To 250, Deduct</i>	-2.05	
				<i>For >250 To 500, Deduct</i>	-2.56	
				<i>For >500, Deduct</i>	-3.08	
	05 05 23	00-1094	EA	5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	26.16	
				<i>For >100 To 250, Deduct</i>	-2.05	
				<i>For >250 To 500, Deduct</i>	-2.56	
				<i>For >500, Deduct</i>	-3.08	
	05 05 23	00-1095	EA	5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.33	
				<i>For >100 To 250, Deduct</i>	-2.09	
				<i>For >250 To 500, Deduct</i>	-2.62	
				<i>For >500, Deduct</i>	-3.14	
	05 05 23	00-1096	EA	5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	29.18	
				<i>For >100 To 250, Deduct</i>	-2.09	
				<i>For >250 To 500, Deduct</i>	-2.62	
				<i>For >500, Deduct</i>	-3.14	
	05 05 23	00-1097	EA	5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.40	
				<i>For >100 To 250, Deduct</i>	-2.09	
				<i>For >250 To 500, Deduct</i>	-2.62	
				<i>For >500, Deduct</i>	-3.14	
	05 05 23	00-1098	EA	5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	36.49	
				<i>For >100 To 250, Deduct</i>	-2.14	
				<i>For >250 To 500, Deduct</i>	-2.67	
				<i>For >500, Deduct</i>	-3.21	
	05 05 23	00-1099	EA	5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.16	
				<i>For >100 To 250, Deduct</i>	-2.14	
				<i>For >250 To 500, Deduct</i>	-2.67	
				<i>For >500, Deduct</i>	-3.21	
	05 05 23	00-1100	EA	5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	39.59	
				<i>For >100 To 250, Deduct</i>	-2.14	
				<i>For >250 To 500, Deduct</i>	-2.67	
				<i>For >500, Deduct</i>	-3.21	
	05 05 23	00-1101	EA	5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	42.00	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
	05 05 23	00-1102	EA	5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	44.06	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	
	05 05 23	00-1103	EA	5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	53.91	
				<i>For >100 To 250, Deduct</i>	-2.18	
				<i>For >250 To 500, Deduct</i>	-2.73	
				<i>For >500, Deduct</i>	-3.27	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1104 EA 5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	64.43	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	
05 05 23 00-1105 3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1106 EA 3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	19.41	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.46	
For >500, Deduct	-2.95	
05 05 23 00-1107 EA 3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.78	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.46	
For >500, Deduct	-2.95	
05 05 23 00-1108 EA 3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	21.20	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.46	
For >500, Deduct	-2.95	
05 05 23 00-1109 EA 3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.66	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-1110 EA 3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	25.31	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-1111 EA 3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.85	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-1112 EA 3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	30.32	
For >100 To 250, Deduct	-2.05	
For >250 To 500, Deduct	-2.56	
For >500, Deduct	-3.08	
05 05 23 00-1113 EA 3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.67	
For >100 To 250, Deduct	-2.05	
For >250 To 500, Deduct	-2.56	
For >500, Deduct	-3.08	
05 05 23 00-1114 EA 3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	32.42	
For >100 To 250, Deduct	-2.05	
For >250 To 500, Deduct	-2.56	
For >500, Deduct	-3.08	
05 05 23 00-1115 EA 3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	33.63	
For >100 To 250, Deduct	-2.09	
For >250 To 500, Deduct	-2.62	
For >500, Deduct	-3.14	
05 05 23 00-1116 EA 3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	35.32	
For >100 To 250, Deduct	-2.09	
For >250 To 500, Deduct	-2.62	
For >500, Deduct	-3.14	
05 05 23 00-1117 EA 3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	40.54	
For >100 To 250, Deduct	-2.09	
For >250 To 500, Deduct	-2.62	
For >500, Deduct	-3.14	
05 05 23 00-1118 EA 3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	48.30	
For >100 To 250, Deduct	-2.14	
For >250 To 500, Deduct	-2.67	
For >500, Deduct	-3.21	
05 05 23 00-1119 EA 3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	54.17	
For >100 To 250, Deduct	-2.14	
For >250 To 500, Deduct	-2.67	
For >500, Deduct	-3.21	
05 05 23 00-1120 EA 3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	55.06	
For >100 To 250, Deduct	-2.14	
For >250 To 500, Deduct	-2.67	
For >500, Deduct	-3.21	
05 05 23 00-1121 EA 3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	58.80	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	
05 05 23 00-1122 EA 3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	67.71	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	
05 05 23 00-1123 EA 3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	68.46	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	
05 05 23 00-1124 EA 3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	70.34	
For >100 To 250, Deduct	-2.18	
For >250 To 500, Deduct	-2.73	
For >500, Deduct	-3.27	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1125 7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)					
05 05 23 00-1126	EA		7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.84	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-1127	EA		7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	24.29	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-1128	EA		7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.86	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.78	
			<i>For >500, Deduct</i>	-3.34	
05 05 23 00-1129	EA		7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	29.29	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.78	
			<i>For >500, Deduct</i>	-3.34	
05 05 23 00-1130	EA		7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.82	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.78	
			<i>For >500, Deduct</i>	-3.34	
05 05 23 00-1131	EA		7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	32.39	
			<i>For >100 To 250, Deduct</i>	-2.27	
			<i>For >250 To 500, Deduct</i>	-2.84	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-1132	EA		7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.47	
			<i>For >100 To 250, Deduct</i>	-2.27	
			<i>For >250 To 500, Deduct</i>	-2.84	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-1133	EA		7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	39.14	
			<i>For >100 To 250, Deduct</i>	-2.27	
			<i>For >250 To 500, Deduct</i>	-2.84	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-1134	EA		7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	39.47	
			<i>For >100 To 250, Deduct</i>	-2.31	
			<i>For >250 To 500, Deduct</i>	-2.89	
			<i>For >500, Deduct</i>	-3.47	
05 05 23 00-1135	EA		7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	41.02	
			<i>For >100 To 250, Deduct</i>	-2.31	
			<i>For >250 To 500, Deduct</i>	-2.89	
			<i>For >500, Deduct</i>	-3.47	
05 05 23 00-1136	EA		7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	54.09	
			<i>For >100 To 250, Deduct</i>	-2.31	
			<i>For >250 To 500, Deduct</i>	-2.89	
			<i>For >500, Deduct</i>	-3.47	
05 05 23 00-1137	EA		7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	60.08	
			<i>For >100 To 250, Deduct</i>	-2.36	
			<i>For >250 To 500, Deduct</i>	-2.95	
			<i>For >500, Deduct</i>	-3.53	
05 05 23 00-1138	EA		7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	66.29	
			<i>For >100 To 250, Deduct</i>	-2.36	
			<i>For >250 To 500, Deduct</i>	-2.95	
			<i>For >500, Deduct</i>	-3.53	
05 05 23 00-1139	EA		7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	69.34	
			<i>For >100 To 250, Deduct</i>	-2.36	
			<i>For >250 To 500, Deduct</i>	-2.95	
			<i>For >500, Deduct</i>	-3.53	
05 05 23 00-1140	EA		7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	73.53	
			<i>For >100 To 250, Deduct</i>	-2.40	
			<i>For >250 To 500, Deduct</i>	-3.00	
			<i>For >500, Deduct</i>	-3.60	
05 05 23 00-1141	EA		7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	76.19	
			<i>For >100 To 250, Deduct</i>	-2.40	
			<i>For >250 To 500, Deduct</i>	-3.00	
			<i>For >500, Deduct</i>	-3.60	
05 05 23 00-1142	EA		7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	78.83	
			<i>For >100 To 250, Deduct</i>	-2.40	
			<i>For >250 To 500, Deduct</i>	-3.00	
			<i>For >500, Deduct</i>	-3.60	
05 05 23 00-1143	EA		7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	81.79	
			<i>For >100 To 250, Deduct</i>	-2.40	
			<i>For >250 To 500, Deduct</i>	-3.00	
			<i>For >500, Deduct</i>	-3.60	
05 05 23 00-1144 1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)					
05 05 23 00-1145	EA		1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	27.23	
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-2.73	
			<i>For >500, Deduct</i>	-3.27	
05 05 23 00-1146	EA		1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.23	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.78	
			<i>For >500, Deduct</i>	-3.34	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1147 EA 1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	33.76	
For>100 To 250, Deduct	-2.23	
For>250 To 500, Deduct	-2.78	
For>500, Deduct	-3.34	
05 05 23 00-1148 EA 1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.79	
For>100 To 250, Deduct	-2.23	
For>250 To 500, Deduct	-2.78	
For>500, Deduct	-3.34	
05 05 23 00-1149 EA 1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	39.46	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.41	
05 05 23 00-1150 EA 1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	42.20	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.41	
05 05 23 00-1151 EA 1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	44.96	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.41	
05 05 23 00-1152 EA 1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	47.95	
For>100 To 250, Deduct	-2.31	
For>250 To 500, Deduct	-2.89	
For>500, Deduct	-3.47	
05 05 23 00-1153 EA 1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	55.10	
For>100 To 250, Deduct	-2.31	
For>250 To 500, Deduct	-2.89	
For>500, Deduct	-3.47	
05 05 23 00-1154 EA 1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	62.14	
For>100 To 250, Deduct	-2.31	
For>250 To 500, Deduct	-2.89	
For>500, Deduct	-3.47	
05 05 23 00-1155 EA 1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	71.99	
For>100 To 250, Deduct	-2.36	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-3.53	
05 05 23 00-1156 EA 1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	80.09	
For>100 To 250, Deduct	-2.36	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-3.53	
05 05 23 00-1157 EA 1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	81.25	
For>100 To 250, Deduct	-2.36	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-3.53	
05 05 23 00-1158 EA 1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	84.12	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-1159 EA 1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	85.23	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-1160 EA 1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	98.68	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-1161 EA 1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	111.66	
For>100 To 250, Deduct	-2.40	
For>250 To 500, Deduct	-3.00	
For>500, Deduct	-3.60	
05 05 23 00-1162 Screws (05 05 23)		
05 05 23 00-1163 Teks® 5 Self Drilling Screws (05 05 23 00-1162)		
Note: Includes Climaseal® finish, self-drill point and tapping threads.		
05 05 23 00-1164 EA 12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw	4.13	
For>10 To 50, Deduct	-0.18	
For>50 To 100, Deduct	-0.38	
For>100, Deduct	-0.75	
05 05 23 00-1165 EA 12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw	4.31	
For>10 To 50, Deduct	-0.18	
For>50 To 100, Deduct	-0.38	
For>100, Deduct	-0.76	
05 05 23 00-1166 EA 12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw	4.82	
For>10 To 50, Deduct	-0.19	
For>50 To 100, Deduct	-0.41	
For>100, Deduct	-0.82	
05 05 23 00-1167 EA 1/4"-28 x 3", Hex Washer Head, Teks® 5 Self Drilling Screw	6.64	
For>10 To 50, Deduct	-0.24	
For>50 To 100, Deduct	-0.53	
For>100, Deduct	-1.06	
05 05 23 00-1168 EA 1/4"-28 x 4", Hex Washer Head, Teks® 5 Self Drilling Screw	7.09	
For>10 To 50, Deduct	-0.25	
For>50 To 100, Deduct	-0.56	
For>100, Deduct	-1.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1169 EA 1/4"-28 x 6", Hex Washer Head, Teks® 5 Self Drilling Screw.....	8.77	
<i>For >10 To 50, Deduct</i>	-0.27	
<i>For >50 To 100, Deduct</i>	-0.62	
<i>For >100, Deduct</i>	-1.24	
05 05 23 00-1170 EA 1/4"-28 x 8", Hex Washer Head, Teks® 5 Self Drilling Screw.....	9.81	
<i>For >10 To 50, Deduct</i>	-0.28	
<i>For >50 To 100, Deduct</i>	-0.66	
<i>For >100, Deduct</i>	-1.33	
05 05 23 00-1171 Security Screws <small>(05 05 23 00-1162)</small>		
05 05 23 00-1172 304/18-8 Stainless Steel, Security Screws <small>(05 05 23 00-1171)</small>		
Note: Includes "security" style drive in machine or sheet metal screw threads.		
05 05 23 00-1173 EA #4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws.....	3.19	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100, Deduct</i>	-0.62	
05 05 23 00-1174 EA #6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.57	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.64	
05 05 23 00-1175 EA #6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.90	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1176 EA #6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.01	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.66	
05 05 23 00-1177 EA #6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.22	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.67	
05 05 23 00-1178 EA #8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.66	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.64	
05 05 23 00-1179 EA #8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.81	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1180 EA #8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.14	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.66	
05 05 23 00-1181 EA #8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.24	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.67	
05 05 23 00-1182 EA #10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.76	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1183 EA #10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.80	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1184 EA #10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.94	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1185 EA #10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.38	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.34	
<i>For >100, Deduct</i>	-0.68	
05 05 23 00-1186 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.01	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.66	
05 05 23 00-1187 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	4.11	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.66	
05 05 23 00-1188 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.53	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.34	
<i>For >100, Deduct</i>	-0.68	
05 05 23 00-1189 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	5.20	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.36	
<i>For >100, Deduct</i>	-0.72	

05 05 23 00-1190

Threaded Rod (05 05 23)

Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1283 for nuts and

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
		washers.		
05 05 23 00-1191		Plain Finish Steel, Low Carbon Threaded Rod (05 05 23 00-1190)		
05 05 23 00-1192	LF	1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.08	0.54
		<i>For Left Hand Threaded Rod, Add</i>	0.10	
05 05 23 00-1193	LF	5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.69	0.59
		<i>For Left Hand Threaded Rod, Add</i>	0.15	
05 05 23 00-1194	LF	3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.13	0.69
		<i>For Left Hand Threaded Rod, Add</i>	0.18	
05 05 23 00-1195	LF	7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.15	0.70
		<i>For Left Hand Threaded Rod, Add</i>	0.28	
05 05 23 00-1196	LF	1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.26	0.73
		<i>For Left Hand Threaded Rod, Add</i>	0.28	
05 05 23 00-1197	LF	9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.22	0.74
		<i>For Left Hand Threaded Rod, Add</i>	0.38	
05 05 23 00-1198	LF	5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.86	0.75
		<i>For Left Hand Threaded Rod, Add</i>	0.44	
05 05 23 00-1199	LF	3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	9.47	0.77
		<i>For Left Hand Threaded Rod, Add</i>	0.79	
05 05 23 00-1200	LF	7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.30	0.80
		<i>For Left Hand Threaded Rod, Add</i>	0.87	
05 05 23 00-1201	LF	1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	14.03	0.90
		<i>For Left Hand Threaded Rod, Add</i>	1.22	
05 05 23 00-1202	LF	1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	17.44	1.01
		<i>For Left Hand Threaded Rod, Add</i>	1.54	
05 05 23 00-1203	LF	1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	23.06	1.09
		<i>For Left Hand Threaded Rod, Add</i>	2.08	
05 05 23 00-1204	LF	1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	28.63	1.18
		<i>For Left Hand Threaded Rod, Add</i>	2.63	
05 05 23 00-1205	LF	1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	34.19	1.23
		<i>For Left Hand Threaded Rod, Add</i>	3.17	
05 05 23 00-1206	LF	1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	41.85	1.29
		<i>For Left Hand Threaded Rod, Add</i>	3.93	
05 05 23 00-1207	LF	2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	53.37	1.36
		<i>For Left Hand Threaded Rod, Add</i>	5.07	
05 05 23 00-1208		Zinc Plated Steel, Low Carbon Threaded Rod (05 05 23 00-1190)		
05 05 23 00-1209	LF	1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	2.10	0.54
		<i>For Left Hand Threaded Rod, Add</i>	0.10	
05 05 23 00-1210	LF	5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.02	0.59
		<i>For Left Hand Threaded Rod, Add</i>	0.18	
05 05 23 00-1211	LF	3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.38	0.69
		<i>For Left Hand Threaded Rod, Add</i>	0.20	
05 05 23 00-1212	LF	7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	4.77	0.70
		<i>For Left Hand Threaded Rod, Add</i>	0.34	
05 05 23 00-1213	LF	1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	5.13	0.73
		<i>For Left Hand Threaded Rod, Add</i>	0.37	
05 05 23 00-1214	LF	9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	6.65	0.74
		<i>For Left Hand Threaded Rod, Add</i>	0.52	
05 05 23 00-1215	LF	5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	7.06	0.75
		<i>For Left Hand Threaded Rod, Add</i>	0.56	
05 05 23 00-1216	LF	3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	10.49	0.77
		<i>For Left Hand Threaded Rod, Add</i>	0.90	
05 05 23 00-1217	LF	7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	13.52	0.80
		<i>For Left Hand Threaded Rod, Add</i>	1.19	
05 05 23 00-1218	LF	1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	18.09	0.90
		<i>For Left Hand Threaded Rod, Add</i>	1.63	
05 05 23 00-1219	LF	1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	23.30	1.01
		<i>For Left Hand Threaded Rod, Add</i>	2.13	
05 05 23 00-1220	LF	1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	27.78	1.09
		<i>For Left Hand Threaded Rod, Add</i>	2.55	
05 05 23 00-1221	LF	1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	31.55	1.18
		<i>For Left Hand Threaded Rod, Add</i>	2.92	
05 05 23 00-1222	LF	1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	39.65	1.23
		<i>For Left Hand Threaded Rod, Add</i>	3.72	
05 05 23 00-1223	LF	1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	49.05	1.29
		<i>For Left Hand Threaded Rod, Add</i>	4.65	
05 05 23 00-1224	LF	2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	71.41	1.36
		<i>For Left Hand Threaded Rod, Add</i>	6.87	
05 05 23 00-1225		Hot Dipped Galvanized Steel, Low Carbon Threaded Rod (05 05 23 00-1190)		
05 05 23 00-1226	LF	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	5.42	0.69
		<i>For Left Hand Threaded Rod, Add</i>	0.41	
05 05 23 00-1227	LF	1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	7.51	0.73
		<i>For Left Hand Threaded Rod, Add</i>	0.61	
05 05 23 00-1228	LF	5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	10.07	0.75
		<i>For Left Hand Threaded Rod, Add</i>	0.86	
05 05 23 00-1229	LF	3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	13.74	0.77
		<i>For Left Hand Threaded Rod, Add</i>	1.22	
05 05 23 00-1230	LF	7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	18.94	0.80
		<i>For Left Hand Threaded Rod, Add</i>	1.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1231 LF 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	24.39 2.26	0.90
05 05 23 00-1232 LF 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	32.04 3.00	1.01
05 05 23 00-1233 LF 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	42.07 3.98	1.09
05 05 23 00-1234 LF 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	46.99 4.46	1.18
05 05 23 00-1235 LF 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	55.89 5.34	1.23
05 05 23 00-1236 LF 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	67.83 6.53	1.29
05 05 23 00-1237 LF 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	118.11 11.54	1.36
05 05 23 00-1238 304/18-8 Stainless Steel Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1239 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	3.09 0.20	0.54
05 05 23 00-1240 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	4.61 0.34	0.59
05 05 23 00-1241 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	5.92 0.46	0.69
05 05 23 00-1242 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	8.18 0.68	0.70
05 05 23 00-1243 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.80 0.84	0.73
05 05 23 00-1244 LF 9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	14.04 1.26	0.74
05 05 23 00-1245 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	14.67 1.32	0.75
05 05 23 00-1246 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	20.49 1.90	0.77
05 05 23 00-1247 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	28.14 2.66	0.80
05 05 23 00-1248 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	36.08 3.43	0.90
05 05 23 00-1249 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	76.28 7.40	1.09
05 05 23 00-1250 LF 1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	116.08 11.36	1.23
05 05 23 00-1251 LF 1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	119.40 11.68	1.29
05 05 23 00-1252 LF 2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	165.15 16.24	1.36
05 05 23 00-1253 316 Stainless Steel Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1254 LF 1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	4.43 0.33	0.54
05 05 23 00-1255 LF 5/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	7.09 0.59	0.59
05 05 23 00-1256 LF 3/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.41 0.81	0.69
05 05 23 00-1257 LF 7/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	14.63 1.32	0.70
05 05 23 00-1258 LF 1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	15.51 1.41	0.73
05 05 23 00-1259 LF 9/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	20.33 1.89	0.74
05 05 23 00-1260 LF 5/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	21.87 2.04	0.75
05 05 23 00-1261 LF 3/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	31.84 3.03	0.77
05 05 23 00-1262 LF 7/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	43.55 4.20	0.80
05 05 23 00-1263 LF 1" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	55.09 5.33	0.90
05 05 23 00-1264 LF 1-1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	116.20 11.39	1.09
05 05 23 00-1265 LF 1-1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	152.29 14.98	1.23
05 05 23 00-1266 Plain Finish Steel, B-7 Alloy Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1267 LF 1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	3.49 1.20	0.54
05 05 23 00-1268 LF 5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	5.30 2.06	0.59
05 05 23 00-1269 LF 3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	5.56 2.10	0.69
05 05 23 00-1270 LF 7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	6.06 2.33	0.70

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1271 LF 1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	6.66	0.73
For Zinc Plating, Add	2.61	
05 05 23 00-1272 LF 9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	8.28	0.74
For Zinc Plating, Add	3.41	
05 05 23 00-1273 LF 5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	8.55	0.75
For Zinc Plating, Add	3.53	
05 05 23 00-1274 LF 3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	11.28	0.77
For Zinc Plating, Add	4.87	
05 05 23 00-1275 LF 7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	13.48	0.80
For Zinc Plating, Add	5.95	
05 05 23 00-1276 LF 1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	17.46	0.90
For Zinc Plating, Add	7.83	
05 05 23 00-1277 LF 1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	22.68	1.01
For Zinc Plating, Add	10.34	
05 05 23 00-1278 LF 1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	25.24	1.09
For Zinc Plating, Add	11.49	
05 05 23 00-1279 LF 1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	29.10	1.18
For Zinc Plating, Add	13.37	
05 05 23 00-1280 LF 1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	35.34	1.23
For Zinc Plating, Add	16.44	
05 05 23 00-1281 LF 1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	36.53	1.29
For Zinc Plating, Add	16.98	
05 05 23 00-1282 LF 2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	48.94	1.36
For Zinc Plating, Add	23.12	
05 05 23 00-1283 Nuts And Washers (05 05 23)		
05 05 23 00-1284 Hex Nuts (05 05 23 00-1283)		
05 05 23 00-1285 Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1286 EA 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.65	0.30
05 05 23 00-1287 EA 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.72	0.30
05 05 23 00-1288 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.77	0.30
05 05 23 00-1289 EA 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.88	0.30
05 05 23 00-1290 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.95	0.30
05 05 23 00-1291 EA 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.20	0.30
05 05 23 00-1292 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.24	0.30
05 05 23 00-1293 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.44	0.60
05 05 23 00-1294 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.03	0.60
05 05 23 00-1295 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.54	0.60
05 05 23 00-1296 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	4.02	0.60
05 05 23 00-1297 EA 1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	4.88	0.60
05 05 23 00-1298 EA 1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	7.06	0.60
05 05 23 00-1299 EA 1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	8.13	0.91
05 05 23 00-1300 EA 1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	11.79	0.91
05 05 23 00-1301 EA 2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	16.90	0.91
05 05 23 00-1302 Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1303 EA 1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.67	0.30
05 05 23 00-1304 EA 5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.73	0.30
05 05 23 00-1305 EA 3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.79	0.30
05 05 23 00-1306 EA 7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.91	0.30
05 05 23 00-1307 EA 1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.04	0.30
05 05 23 00-1308 EA 9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.22	0.30
05 05 23 00-1309 EA 5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.26	0.30
05 05 23 00-1310 EA 3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.60	0.60
05 05 23 00-1311 EA 7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	2.19	0.60
05 05 23 00-1312 EA 1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	3.02	0.60
05 05 23 00-1313 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	4.51	0.60
05 05 23 00-1314 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	6.28	0.60
05 05 23 00-1315 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	9.09	0.60
05 05 23 00-1316 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	10.02	0.91
05 05 23 00-1317 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	17.81	0.91
05 05 23 00-1318 EA 2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	25.41	0.91
05 05 23 00-1319 Zinc Plated Steel, Grade 8 Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1320 EA 1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.68	0.30
05 05 23 00-1321 EA 5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.77	0.30
05 05 23 00-1322 EA 3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.83	0.30
05 05 23 00-1323 EA 7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.01	0.30
05 05 23 00-1324 EA 1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.18	0.30
05 05 23 00-1325 EA 9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.38	0.30
05 05 23 00-1326 EA 5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.55	0.30
05 05 23 00-1327 EA 3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.90	0.60
05 05 23 00-1328 EA 7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.76	0.60
05 05 23 00-1329 EA 1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	3.62	0.60
05 05 23 00-1330 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	5.55	0.60
05 05 23 00-1331 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	6.88	0.60
05 05 23 00-1332 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	11.15	0.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1333 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	11.83	0.91
05 05 23 00-1334 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	17.86	0.91
05 05 23 00-1335 EA 2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	25.13	0.91
05 05 23 00-1336 Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1337 EA 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.68	0.30
05 05 23 00-1338 EA 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.75	0.30
05 05 23 00-1339 EA 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.81	0.30
05 05 23 00-1340 EA 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.99	0.30
05 05 23 00-1341 EA 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.12	0.30
05 05 23 00-1342 EA 9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.23	0.30
05 05 23 00-1343 EA 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.35	0.30
05 05 23 00-1344 EA 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.75	0.60
05 05 23 00-1345 EA 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	2.46	0.60
05 05 23 00-1346 EA 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	3.33	0.60
05 05 23 00-1347 EA 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	5.38	0.60
05 05 23 00-1348 EA 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	6.84	0.60
05 05 23 00-1349 EA 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	10.02	0.60
05 05 23 00-1350 EA 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	11.65	0.91
05 05 23 00-1351 EA 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	20.07	0.91
05 05 23 00-1352 EA 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	34.48	0.91
05 05 23 00-1353 304 Stainless Steel Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1354 EA 1/4" Diameter, 304 Stainless Steel Hex Nut.....	0.76	0.30
05 05 23 00-1355 EA 5/16" Diameter, 304 Stainless Steel Hex Nut.....	0.89	0.30
05 05 23 00-1356 EA 3/8" Diameter, 304 Stainless Steel Hex Nut.....	0.99	0.30
05 05 23 00-1357 EA 7/16" Diameter, 304 Stainless Steel Hex Nut.....	1.45	0.30
05 05 23 00-1358 EA 1/2" Diameter, 304 Stainless Steel Hex Nut.....	1.56	0.30
05 05 23 00-1359 EA 9/16" Diameter, 304 Stainless Steel Hex Nut.....	2.32	0.30
05 05 23 00-1360 EA 5/8" Diameter, 304 Stainless Steel Hex Nut.....	2.58	0.30
05 05 23 00-1361 EA 3/4" Diameter, 304 Stainless Steel Hex Nut.....	2.96	0.60
05 05 23 00-1362 EA 7/8" Diameter, 304 Stainless Steel Hex Nut.....	4.78	0.60
05 05 23 00-1363 EA 1" Diameter, 304 Stainless Steel Hex Nut.....	7.27	0.60
05 05 23 00-1364 EA 1-1/4" Diameter, 304 Stainless Steel Hex Nut.....	17.30	0.60
05 05 23 00-1365 EA 1-1/2" Diameter, 304 Stainless Steel Hex Nut.....	33.10	0.91
05 05 23 00-1366 EA 1-3/4" Diameter, 304 Stainless Steel Hex Nut.....	58.06	0.91
05 05 23 00-1367 EA 2" Diameter, 304 Stainless Steel Hex Nut.....	82.69	0.91
05 05 23 00-1368 316 Stainless Steel Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1369 EA 1/4" Diameter, 316 Stainless Steel Hex Nut.....	0.87	0.30
05 05 23 00-1370 EA 5/16" Diameter, 316 Stainless Steel Hex Nut.....	0.99	0.30
05 05 23 00-1371 EA 3/8" Diameter, 316 Stainless Steel Hex Nut.....	1.17	0.30
05 05 23 00-1372 EA 7/16" Diameter, 316 Stainless Steel Hex Nut.....	1.87	0.30
05 05 23 00-1373 EA 1/2" Diameter, 316 Stainless Steel Hex Nut.....	2.00	0.30
05 05 23 00-1374 EA 9/16" Diameter, 316 Stainless Steel Hex Nut.....	2.69	0.30
05 05 23 00-1375 EA 5/8" Diameter, 316 Stainless Steel Hex Nut.....	3.03	0.30
05 05 23 00-1376 EA 3/4" Diameter, 316 Stainless Steel Hex Nut.....	4.19	0.60
05 05 23 00-1377 EA 7/8" Diameter, 316 Stainless Steel Hex Nut.....	5.78	0.60
05 05 23 00-1378 EA 1" Diameter, 316 Stainless Steel Hex Nut.....	8.87	0.60
05 05 23 00-1379 EA 1-1/4" Diameter, 316 Stainless Steel Hex Nut.....	26.73	0.60
05 05 23 00-1380 EA 1-1/2" Diameter, 316 Stainless Steel Hex Nut.....	43.16	0.91
05 05 23 00-1381 EA 1-3/4" Diameter, 316 Stainless Steel Hex Nut.....	72.71	0.91
05 05 23 00-1382 EA 2" Diameter, 316 Stainless Steel Hex Nut.....	135.03	0.91
05 05 23 00-1383 Flat Washers (05 05 23 00-1283)		
05 05 23 00-1384 Zinc Plated Steel, Low Carbon Flat Washers (05 05 23 00-1383)		
05 05 23 00-1385 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.04	
05 05 23 00-1386 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.06	
05 05 23 00-1387 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.11	
05 05 23 00-1388 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.16	
05 05 23 00-1389 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.23	
05 05 23 00-1390 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.26	
05 05 23 00-1391 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.44	
05 05 23 00-1392 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.64	
05 05 23 00-1393 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.76	
05 05 23 00-1394 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.94	
05 05 23 00-1395 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.06	
05 05 23 00-1396 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.26	
05 05 23 00-1397 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.98	
05 05 23 00-1398 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.03	
05 05 23 00-1399 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	3.01	
05 05 23 00-1400 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	3.74	
05 05 23 00-1401 Zinc Plated Steel, Hardened Flat Washers (05 05 23 00-1383)		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1402 EA 1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.14	
05 05 23 00-1403 EA 5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.19	
05 05 23 00-1404 EA 3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.22	
05 05 23 00-1405 EA 7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.29	
05 05 23 00-1406 EA 1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.40	
05 05 23 00-1407 EA 9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.64	
05 05 23 00-1408 EA 5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.92	
05 05 23 00-1409 EA 3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.29	
05 05 23 00-1410 EA 7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.16	
05 05 23 00-1411 EA 1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.39	
05 05 23 00-1412 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.48	
05 05 23 00-1413 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.80	
05 05 23 00-1414 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	5.01	
05 05 23 00-1415 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	5.73	
05 05 23 00-1416 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	7.70	
05 05 23 00-1417 EA 2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	9.24	
05 05 23 00-1418 Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1419 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.09	
05 05 23 00-1420 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.13	
05 05 23 00-1421 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.14	
05 05 23 00-1422 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.27	
05 05 23 00-1423 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.34	
05 05 23 00-1424 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.56	
05 05 23 00-1425 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.63	
05 05 23 00-1426 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.96	
05 05 23 00-1427 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.34	
05 05 23 00-1428 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.48	
05 05 23 00-1429 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.26	
05 05 23 00-1430 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.51	
05 05 23 00-1431 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.59	
05 05 23 00-1432 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.89	
05 05 23 00-1433 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	5.65	
05 05 23 00-1434 304/18-8 Stainless Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1435 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.12	
05 05 23 00-1436 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.17	
05 05 23 00-1437 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.24	
05 05 23 00-1438 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.44	
05 05 23 00-1439 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.79	
05 05 23 00-1440 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.99	
05 05 23 00-1441 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.46	
05 05 23 00-1442 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.48	
05 05 23 00-1443 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	3.12	
05 05 23 00-1444 EA 1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	3.96	
05 05 23 00-1445 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	4.61	
05 05 23 00-1446 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	4.96	
05 05 23 00-1447 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	5.24	
05 05 23 00-1448 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	6.39	
05 05 23 00-1449 EA 1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	7.94	
05 05 23 00-1450 EA 2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	15.60	
05 05 23 00-1451 316 Stainless Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1452 EA 1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.24	
05 05 23 00-1453 EA 5/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.26	
05 05 23 00-1454 EA 3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.47	
05 05 23 00-1455 EA 7/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.56	
05 05 23 00-1456 EA 1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.03	
05 05 23 00-1457 EA 9/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.85	
05 05 23 00-1458 EA 5/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.18	
05 05 23 00-1459 EA 3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.75	
05 05 23 00-1460 EA 7/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.26	
05 05 23 00-1461 EA 1" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.76	
05 05 23 00-1462 EA 1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	5.43	
05 05 23 00-1463 EA 1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	6.68	
05 05 23 00-1464 EA 1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.07	
05 05 23 00-1465 EA 1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.23	
05 05 23 00-1466 EA 1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	10.59	
05 05 23 00-1467 Lock Washers (05 05 23 00-1283)		
05 05 23 00-1468 Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1467)		
05 05 23 00-1469 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.02	
05 05 23 00-1470 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.03	
05 05 23 00-1471 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.04	
05 05 23 00-1472 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.06	
05 05 23 00-1473 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1474 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.15	
05 05 23 00-1475 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.17	
05 05 23 00-1476 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.26	
05 05 23 00-1477 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.42	
05 05 23 00-1478 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.76	
05 05 23 00-1479 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.12	
05 05 23 00-1480 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.71	
05 05 23 00-1481 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	2.71	
05 05 23 00-1482 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	3.19	
05 05 23 00-1483 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	5.70	
05 05 23 00-1484 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	6.42	
05 05 23 00-1485 Hot Dipped Galvanized Steel Lock Washers <small>(05 05 23 00-1467)</small>		
05 05 23 00-1486 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.07	
05 05 23 00-1487 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.08	
05 05 23 00-1488 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.11	
05 05 23 00-1489 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.12	
05 05 23 00-1490 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.19	
05 05 23 00-1491 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.25	
05 05 23 00-1492 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.29	
05 05 23 00-1493 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.49	
05 05 23 00-1494 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.71	
05 05 23 00-1495 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.12	
05 05 23 00-1496 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.02	
05 05 23 00-1497 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.41	
05 05 23 00-1498 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.48	
05 05 23 00-1499 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.98	
05 05 23 00-1500 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.39	
05 05 23 00-1501 EA 2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	7.34	
05 05 23 00-1502 304/18-8 Stainless Steel Lock Washers <small>(05 05 23 00-1467)</small>		
05 05 23 00-1503 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.10	
05 05 23 00-1504 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.15	
05 05 23 00-1505 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.20	
05 05 23 00-1506 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.38	
05 05 23 00-1507 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.42	
05 05 23 00-1508 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.02	
05 05 23 00-1509 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.20	
05 05 23 00-1510 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.40	
05 05 23 00-1511 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	2.54	
05 05 23 00-1512 EA 1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	3.59	
05 05 23 00-1513 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	6.26	
05 05 23 00-1514 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	8.32	
05 05 23 00-1515 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	10.59	
05 05 23 00-1516 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	12.70	
05 05 23 00-1517 316 Stainless Steel Lock Washers <small>(05 05 23 00-1467)</small>		
05 05 23 00-1518 EA 1/4" Inside Diameter, 316 Stainless Steel Lock Washer	0.13	
05 05 23 00-1519 EA 5/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.28	
05 05 23 00-1520 EA 3/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.32	
05 05 23 00-1521 EA 7/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.55	
05 05 23 00-1522 EA 1/2" Inside Diameter, 316 Stainless Steel Lock Washer	0.61	
05 05 23 00-1523 EA 9/16" Inside Diameter, 316 Stainless Steel Lock Washer	1.09	
05 05 23 00-1524 EA 5/8" Inside Diameter, 316 Stainless Steel Lock Washer	1.20	
05 05 23 00-1525 EA 3/4" Inside Diameter, 316 Stainless Steel Lock Washer	2.06	
05 05 23 00-1526 EA 7/8" Inside Diameter, 316 Stainless Steel Lock Washer	3.41	
05 05 23 00-1527 EA 1" Inside Diameter, 316 Stainless Steel Lock Washer	4.64	
05 05 23 00-1528 EA 1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer	6.48	
05 05 23 00-1529 EA 1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer	9.98	
05 05 23 00-1530 EA 1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer	17.86	
05 05 23 00-1531 EA 1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer	19.84	
05 05 23 00-1532 Load Indicating Washers <small>(05 05 23 00-1283)</small>		
05 05 23 00-1533 A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) <small>(05 05 23 00-1532)</small>		
05 05 23 00-1534 Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) <small>(05 05 23 00-1533)</small>		
05 05 23 00-1535 EA 1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	1.86	
05 05 23 00-1536 EA 5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.10	
05 05 23 00-1537 EA 3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.27	
05 05 23 00-1538 EA 7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.58	
05 05 23 00-1539 EA 1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.11	
05 05 23 00-1540 EA 1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	5.17	
05 05 23 00-1541 EA 1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	6.68	
05 05 23 00-1542 EA 1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	8.53	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1543 EA 1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	9.38	
05 05 23 00-1544 Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) <small>(05 05 23 00-1533)</small>		
05 05 23 00-1545 EA 1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.35	
05 05 23 00-1546 EA 5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.62	
05 05 23 00-1547 EA 3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.55	
05 05 23 00-1548 EA 7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.11	
05 05 23 00-1549 EA 1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.68	
05 05 23 00-1550 EA 1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	5.55	
05 05 23 00-1551 EA 1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	6.99	
05 05 23 00-1552 EA 1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	9.95	
05 05 23 00-1553 EA 1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	10.94	
05 05 23 00-1554 Beveled Washers <small>(05 05 23 00-1283)</small>		
05 05 23 00-1555 Plain Finish, Square Beveled Structural Washers (ASTM F436) <small>(05 05 23 00-1554)</small>		
05 05 23 00-1556 EA 1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.07	
05 05 23 00-1557 EA 5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.13	
05 05 23 00-1558 EA 3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.20	
05 05 23 00-1559 EA 7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.89	
05 05 23 00-1560 EA 1", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.10	
05 05 23 00-1561 Galvanized, Square Beveled Structural Washers (ASTM F436) <small>(05 05 23 00-1554)</small>		
05 05 23 00-1562 EA 1/2", Galvanized, Square Beveled Structural Washer (ASTM F436).....	4.41	
05 05 23 00-1563 EA 5/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	4.61	
05 05 23 00-1564 EA 3/4", Galvanized, Square Beveled Structural Washer (ASTM F436).....	4.61	
05 05 23 00-1565 EA 7/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	4.88	
05 05 23 00-1566 EA 1", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.18	
05 05 23 00-1567 Drilling In Steel Plates <small>(05 05 23)</small>		
05 05 23 00-1568 EA Up To 1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	20.43	
For Aluminum, Deduct	-2.04	
For Stainless Steel, Add	2.55	
For >5 To 10, Deduct	-2.04	
For >10 To 25, Deduct	-5.11	
For >25 To 50, Deduct	-7.15	
For >50, Deduct	-10.22	
05 05 23 00-1569 EA >1/2" To 7/8" Diameter Drill Through Up To 1/4" Steel Plate.....	24.04	
For Aluminum, Deduct	-2.40	
For Stainless Steel, Add	3.01	
For >5 To 10, Deduct	-2.40	
For >10 To 25, Deduct	-6.01	
For >25 To 50, Deduct	-8.41	
For >50, Deduct	-12.02	
05 05 23 00-1570 EA >7/8" To 1-1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	28.84	
For Aluminum, Deduct	-2.88	
For Stainless Steel, Add	3.61	
For >5 To 10, Deduct	-2.88	
For >10 To 25, Deduct	-7.21	
For >25 To 50, Deduct	-10.09	
For >50, Deduct	-14.42	
05 05 23 00-1571 EA >1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....	33.65	
For Aluminum, Deduct	-3.37	
For Stainless Steel, Add	4.21	
For >5 To 10, Deduct	-3.37	
For >10 To 25, Deduct	-8.41	
For >25 To 50, Deduct	-11.78	
For >50, Deduct	-16.83	
05 05 23 00-1572 EA >4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	45.06	
For Aluminum, Deduct	-4.51	
For Stainless Steel, Add	5.63	
For >5 To 10, Deduct	-4.51	
For >10 To 25, Deduct	-11.27	
For >25 To 50, Deduct	-15.77	
For >50, Deduct	-22.53	
05 05 23 00-1573 EA Up To 1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	24.04	
For Aluminum, Deduct	-2.40	
For Stainless Steel, Add	3.01	
For >5 To 10, Deduct	-2.40	
For >10 To 25, Deduct	-6.01	
For >25 To 50, Deduct	-8.41	
For >50, Deduct	-12.02	
05 05 23 00-1574 EA >1/2" To 7/8" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	30.04	
For Aluminum, Deduct	-3.00	
For Stainless Steel, Add	3.76	
For >5 To 10, Deduct	-3.00	
For >10 To 25, Deduct	-7.51	
For >25 To 50, Deduct	-10.51	
For >50, Deduct	-15.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1575 EA >7/8" To 1-1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	36.05	
For Aluminum, Deduct	-3.61	
For Stainless Steel, Add	4.51	
For >5 To 10, Deduct	-3.61	
For >10 To 25, Deduct	-9.01	
For >25 To 50, Deduct	-12.62	
For >50, Deduct	-18.03	
05 05 23 00-1576 EA >1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	45.06	
For Aluminum, Deduct	-4.51	
For Stainless Steel, Add	5.63	
For >5 To 10, Deduct	-4.51	
For >10 To 25, Deduct	-11.27	
For >25 To 50, Deduct	-15.77	
For >50, Deduct	-22.53	
05 05 23 00-1577 EA Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	30.04	
For Aluminum, Deduct	-3.00	
For Stainless Steel, Add	3.76	
For >5 To 10, Deduct	-3.00	
For >10 To 25, Deduct	-7.51	
For >25 To 50, Deduct	-10.51	
For >50, Deduct	-15.02	
05 05 23 00-1578 EA >1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	39.66	
For Aluminum, Deduct	-3.97	
For Stainless Steel, Add	4.96	
For >5 To 10, Deduct	-3.97	
For >10 To 25, Deduct	-9.92	
For >25 To 50, Deduct	-13.88	
For >50, Deduct	-19.83	
05 05 23 00-1579 EA >7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	48.06	
For Aluminum, Deduct	-4.81	
For Stainless Steel, Add	6.01	
For >5 To 10, Deduct	-4.81	
For >10 To 25, Deduct	-12.02	
For >25 To 50, Deduct	-16.82	
For >50, Deduct	-24.03	

05 05 23 00-1580 Welded Stud Anchors (05 05 23)

05 05 23 00-1581 EA 1-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.26
05 05 23 00-1582 EA 2-11/16" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.35
05 05 23 00-1583 EA 3-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.39
05 05 23 00-1584 EA 4-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.43
05 05 23 00-1585 EA 1-3/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.18
05 05 23 00-1586 EA 1-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.40
05 05 23 00-1587 EA 2-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.63
05 05 23 00-1588 EA 2-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.75
05 05 23 00-1589 EA 3-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.87
05 05 23 00-1590 EA 4-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.35
05 05 23 00-1591 EA 5-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.73
05 05 23 00-1592 EA 6-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	6.04
05 05 23 00-1593 EA 1-1/2" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.13
05 05 23 00-1594 EA 1-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.16
05 05 23 00-1595 EA 2-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.52
05 05 23 00-1596 EA 2-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.85
05 05 23 00-1597 EA 3-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.27
05 05 23 00-1598 EA 4-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.91
05 05 23 00-1599 EA 5-5/16" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	7.33
05 05 23 00-1600 EA 6-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	8.46
05 05 23 00-1601 EA 8-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	10.61
05 05 23 00-1602 EA 2-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	7.34
05 05 23 00-1603 EA 3-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	7.89
05 05 23 00-1604 EA 3-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	8.33
05 05 23 00-1605 EA 4-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	8.76
05 05 23 00-1606 EA 4-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.13
05 05 23 00-1607 EA 5-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.46
05 05 23 00-1608 EA 6-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.90
05 05 23 00-1609 EA 6-9/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	11.73
05 05 23 00-1610 EA 8-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	14.26

05 05 23 00-1611 Welded Shear Stud Connector (05 05 23)

05 05 23 00-1612 3/4" Diameter Welded Shear Stud Connector (05 05 23 00-1611)

05 05 23 00-1613 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	9.42
05 05 23 00-1614 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector.....	9.80
05 05 23 00-1615 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector.....	9.91
05 05 23 00-1616 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	9.96
05 05 23 00-1617 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector.....	10.40
05 05 23 00-1618 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector.....	11.20
05 05 23 00-1619 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector.....	18.97
05 05 23 00-1620 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	12.13
05 05 23 00-1621 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector.....	13.55
05 05 23 00-1622 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	17.65

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1623 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector	18.09	
05 05 23 00-1624 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector	19.64	
05 05 23 00-1625 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector	26.14	
05 05 23 00-1626 7/8" Diameter Welded Shear Stud Connector (05 05 23 00-1611)		
05 05 23 00-1627 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector	11.35	
05 05 23 00-1628 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector	11.97	
05 05 23 00-1629 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector	12.59	
05 05 23 00-1630 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector	14.37	
05 05 23 00-1631 EA 7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector	18.60	
05 05 23 00-1632 EA 7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector	20.49	
05 05 23 00-1633 EA 7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector	22.35	
05 05 23 00-1634 EA 7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector	27.56	
05 05 23 00-1635 1" Diameter Welded Shear Stud Connector (05 05 23 00-1611)		
05 05 23 00-1636 EA 1" Diameter x 3-1/4" Long, Welded Shear Stud Connector	15.41	
05 05 23 00-1637 EA 1" Diameter x 4-1/4" Long, Welded Shear Stud Connector	17.32	
05 05 23 00-1638 EA 1" Diameter x 5-1/4" Long, Welded Shear Stud Connector	20.13	
05 05 23 00-1639 EA 1" Diameter x 6-1/4" Long, Welded Shear Stud Connector	25.65	
05 05 23 00-1640 EA 1" Diameter x 7-1/4" Long, Welded Shear Stud Connector	28.60	
05 05 23 00-1641 EA 1" Diameter x 8-1/4" Long, Welded Shear Stud Connector	31.54	

05 10 Structural Metal Framing (05)**05 12 Structural Steel Framing** (05 10)**05 12 23 Structural Steel for Buildings** (05 12)

See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.

05 12 23 00-0001 Rolled Steel Members (05 12 23)

Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.

05 12 23 00-0002 Beams, Girders And Columns (05 12 23 00-0001)

Note: For one and two story I beams and W shapes and HP shapes.

05 12 23 00-0003 TON Up To 30 LB/LF Beams, Girders And Columns	10,825.48	1,278.04
For ASTM A242 Type 2 High Strength Steel, Add	654.52	
For Hot Dip Galvanizing, Add	2,290.82	
For >10 To 25 Tons, Deduct	-695.43	
For >25 To 50 Tons, Deduct	-1,431.76	
For >50 Tons, Deduct	-2,045.38	
05 12 23 00-0004 TON >30-65 LB/LF Beams, Girders And Columns	7,595.96	826.16
For ASTM A242 Type 2 High Strength Steel, Add	537.17	
For Hot Dip Galvanizing, Add	1,880.10	
For >10 To 25 Tons, Deduct	-570.74	
For >25 To 50 Tons, Deduct	-1,175.06	
For >50 Tons, Deduct	-1,678.66	
05 12 23 00-0005 TON >65-100 LB/LF Beams, Girders And Columns	6,456.89	464.76
For ASTM A242 Type 2 High Strength Steel, Add	476.89	
For Hot Dip Galvanizing, Add	1,669.12	
For >10 To 25 Tons, Deduct	-506.70	
For >25 To 50 Tons, Deduct	-1,043.20	
For >50 Tons, Deduct	-1,490.29	
05 12 23 00-0006 TON >100-300 LB/LF Beams, Girders And Columns	4,339.54	247.38
For ASTM A242 Type 2 High Strength Steel, Add	326.01	
For Hot Dip Galvanizing, Add	1,141.04	
For >10 To 25 Tons, Deduct	-346.39	
For >25 To 50 Tons, Deduct	-713.15	
For >50 Tons, Deduct	-1,018.79	

05 12 23 00-0007 Trusses, Built-Up (05 12 23 00-0001)

05 12 23 00-0008 TON Built-Up Trusses, Rolled Structural Steel Members	8,060.36	869.17
For ASTM A242 Type 2 High Strength Steel, Add	570.70	
For Hot Dip Galvanizing, Add	1,997.44	
For >10 To 25 Tons, Deduct	-606.37	
For >25 To 50 Tons, Deduct	-1,248.40	
For >50 Tons, Deduct	-1,783.43	

05 12 23 00-0009 Shapes (05 12 23 00-0001)**05 12 23 00-0010 Rolled Shape Steel Angles** (05 12 23 00-0009)



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0011 TON Up To 10 LB/LF Rolled Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	15,775.03 945.22 3,308.27 -1,004.30 -2,067.67 -2,953.81	2,375.87
05 12 23 00-0012 TON >10 To 20 LB/LF Rolled Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,946.48 904.20 3,164.70 -960.71 -1,977.94 -2,825.63	1,394.29
05 12 23 00-0013 TON >20 To 58 LB/LF Rolled Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	10,823.83 795.41 2,783.94 -845.12 -1,739.96 -2,485.66	826.16
05 12 23 00-0014 Rolled C, MC Steel Channels (05 12 23 00-0009)		
05 12 23 00-0015 TON Up To 10 LB/LF Rolled C, MC Steel Channels <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	17,084.67 930.95 3,258.33 -989.14 -2,036.46 -2,909.23	3,253.35
05 12 23 00-0016 TON >10 To 20 Rolled C, MC Steel Channels <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,790.43 891.72 3,121.01 -947.45 -1,950.63 -2,786.61	2,478.74
05 12 23 00-0017 TON >20 To 58 LB/LF Rolled C, MC Steel Channels <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	10,645.48 781.14 2,734.00 -829.96 -1,708.75 -2,441.07	826.16
05 12 23 00-0018 Double L Shape Steel Angles (05 12 23 00-0009)		
05 12 23 00-0019 TON Up To 20 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	14,669.20 909.55 3,183.43 -966.40 -1,989.64 -2,842.35	1,885.08
05 12 23 00-0020 TON >20 To 50 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,581.79 856.05 2,996.17 -909.55 -1,872.61 -2,675.15	826.16
05 12 23 00-0021 TON >50 To 80 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,744.13 659.87 2,309.55 -701.11 -1,443.47 -2,062.10	464.76
05 12 23 00-0022 TON >80 To 115 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,614.29 428.02 1,498.08 -454.78 -936.30 -1,337.58	247.75
05 12 23 00-0023 Structural WT, MT, ST Tee Shapes (05 12 23 00-0001)		
05 12 23 00-0024 TON Up To 30 LB/LF Structural WT, MT, ST Tee Shapes <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,344.58 856.05 2,996.17 -909.55 -1,872.61 -2,675.15	1,394.29
05 12 23 00-0025 TON >30 To 65 LB/LF Structural WT, MT, ST Tee Shapes <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,062.83 654.52 2,290.82 -695.43 -1,431.76 -2,045.38	826.16

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0026 TON >65 To 100 LB/LF Structural WT, MT, ST Tee Shapes	7,183.62	464.76
For ASTM A242 Type 2 High Strength Steel, Add	535.03	
For Hot Dip Galvanizing, Add	1,872.60	
For >10 To 25 Tons, Deduct	-568.47	
For >25 To 50 Tons, Deduct	-1,170.38	
For >50 Tons, Deduct	-1,671.97	
05 12 23 00-0027 TON >100 To 365 LB/LF Structural WT, MT, ST Tee Shapes	5,302.60	247.38
For ASTM A242 Type 2 High Strength Steel, Add	403.06	
For Hot Dip Galvanizing, Add	1,410.70	
For >10 To 25 Tons, Deduct	-428.25	
For >25 To 50 Tons, Deduct	-881.69	
For >50 Tons, Deduct	-1,259.55	
05 12 23 00-0028 Combination Section Shapes (05 12 23 00-0001)		
05 12 23 00-0029 Combination Section, W Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0030 TON Up To 30 LB/LF Combination Section - W Shapes And Angles	12,653.49	1,394.29
For ASTM A242 Type 2 High Strength Steel, Add	800.76	
For Hot Dip Galvanizing, Add	2,802.66	
For >10 To 25 Tons, Deduct	-850.81	
For >25 To 50 Tons, Deduct	-1,751.66	
For >50 Tons, Deduct	-2,502.38	
05 12 23 00-0031 TON >30-65 LB/LF Combination Section - W Shapes And Angles	9,129.72	826.16
For ASTM A242 Type 2 High Strength Steel, Add	659.87	
For Hot Dip Galvanizing, Add	2,309.55	
For >10 To 25 Tons, Deduct	-701.11	
For >25 To 50 Tons, Deduct	-1,443.47	
For >50 Tons, Deduct	-2,062.10	
05 12 23 00-0032 TON >65-100 LB/LF Combination Section - W Shapes And Angles	6,626.30	464.76
For ASTM A242 Type 2 High Strength Steel, Add	490.44	
For Hot Dip Galvanizing, Add	1,716.55	
For >10 To 25 Tons, Deduct	-521.10	
For >25 To 50 Tons, Deduct	-1,072.85	
For >50 Tons, Deduct	-1,532.64	
05 12 23 00-0033 TON >100-300 LB/LF Combination Section - W Shapes And Angles	5,748.05	247.38
For ASTM A242 Type 2 High Strength Steel, Add	438.72	
For Hot Dip Galvanizing, Add	1,535.54	
For >10 To 25 Tons, Deduct	-466.15	
For >25 To 50 Tons, Deduct	-969.71	
For >50 Tons, Deduct	-1,371.02	
05 12 23 00-0034 TON >300-500 LB/LF Combination Section - W Shapes And Angles	4,969.77	124.19
For ASTM A242 Type 2 High Strength Steel, Add	387.01	
For Hot Dip Galvanizing, Add	1,354.52	
For >10 To 25 Tons, Deduct	-411.19	
For >25 To 50 Tons, Deduct	-846.57	
For >50 Tons, Deduct	-1,209.39	
05 12 23 00-0035 Combination Section, S Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0036 TON >30-65 LB/LF Combination Section - S Shapes And Angles	8,773.02	826.16
For ASTM A242 Type 2 High Strength Steel, Add	631.34	
For Hot Dip Galvanizing, Add	2,209.67	
For >10 To 25 Tons, Deduct	-670.79	
For >25 To 50 Tons, Deduct	-1,381.05	
For >50 Tons, Deduct	-1,972.92	
05 12 23 00-0037 TON >65-100 LB/LF Combination Section - S Shapes And Angles	6,648.59	464.76
For ASTM A242 Type 2 High Strength Steel, Add	492.23	
For Hot Dip Galvanizing, Add	1,722.80	
For >10 To 25 Tons, Deduct	-522.99	
For >25 To 50 Tons, Deduct	-1,076.75	
For >50 Tons, Deduct	-1,538.21	
05 12 23 00-0038 Combination Section, Channels And Angles (05 12 23 00-0028)		
05 12 23 00-0039 TON Up To 30 LB/LF Combination Section - Channels And Angles	13,344.58	1,394.29
For ASTM A242 Type 2 High Strength Steel, Add	856.05	
For Hot Dip Galvanizing, Add	2,996.17	
For >10 To 25 Tons, Deduct	-909.55	
For >25 To 50 Tons, Deduct	-1,872.61	
For >50 Tons, Deduct	-2,675.15	
05 12 23 00-0040 TON >30-65 LB/LF Combination Section - Channels And Angles	9,575.56	826.16
For ASTM A242 Type 2 High Strength Steel, Add	695.54	
For Hot Dip Galvanizing, Add	2,434.38	
For >10 To 25 Tons, Deduct	-739.01	
For >25 To 50 Tons, Deduct	-1,521.49	
For >50 Tons, Deduct	-2,173.56	
05 12 23 00-0041 TON >65-100 LB/LF Combination Section - Channels And Angles	6,804.64	464.76
For ASTM A242 Type 2 High Strength Steel, Add	504.71	
For Hot Dip Galvanizing, Add	1,766.49	
For >10 To 25 Tons, Deduct	-536.26	
For >25 To 50 Tons, Deduct	-1,104.06	
For >50 Tons, Deduct	-1,577.22	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0042 Standard Weight Pipe <small>(05 12 23 00-0001)</small>		
05 12 23 00-0043 TON 1/2" To 5" Diameter Standard Weight Pipe.....	7,748.59	743.62
For ASTM A242 Type 2 High Strength Steel, Add	556.43	
For Hot Dip Galvanizing, Add	1,947.51	
For >10 To 25 Tons, Deduct	-591.21	
For >25 To 50 Tons, Deduct	-1,217.19	
For >50 Tons, Deduct	-1,738.85	
05 12 23 00-0044 TON >5" To 12" Diameter Standard Weight Pipe.....	8,258.99	929.52
For ASTM A242 Type 2 High Strength Steel, Add	581.40	
For Hot Dip Galvanizing, Add	2,034.90	
For >10 To 25 Tons, Deduct	-617.74	
For >25 To 50 Tons, Deduct	-1,271.81	
For >50 Tons, Deduct	-1,816.87	
05 12 23 00-0045 Structural Steel Shapes <small>(05 12 23)</small>		
Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.		
05 12 23 00-0046 Steel Rods <small>(05 12 23 00-0045)</small>		
05 12 23 00-0047 TON 1/2" To 5" Diameter Extra Strong Steel, Solid.....	8,377.61	581.01
For ASTM A242 Type 2 High Strength Steel, Add	620.63	
For Hot Dip Galvanizing, Add	2,172.22	
For >10 To 25 Tons, Deduct	-659.42	
For >25 To 50 Tons, Deduct	-1,357.64	
For >50 Tons, Deduct	-1,939.48	
05 12 23 00-0048 TON >5" To 12" Diameter Extra Strong Steel, Solid	9,575.56	826.16
For ASTM A242 Type 2 High Strength Steel, Add	695.54	
For Hot Dip Galvanizing, Add	2,434.38	
For >10 To 25 Tons, Deduct	-739.01	
For >25 To 50 Tons, Deduct	-1,521.49	
For >50 Tons, Deduct	-2,173.56	
05 12 23 00-0049 Column Base Plates <small>(05 12 23 00-0045)</small>		
05 12 23 00-0050 LB Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items	4.15	0.76
For ASTM A242 Type 2 High Strength Steel, Add	0.27	
For Hot Dip Galvanizing, Add	0.94	
05 12 23 00-0051 LB Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items	3.91	0.65
For ASTM A242 Type 2 High Strength Steel, Add	0.25	
For Hot Dip Galvanizing, Add	0.89	
05 12 23 00-0052 TON Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items	7,619.04	677.82
For ASTM A242 Type 2 High Strength Steel, Add	551.68	
For Hot Dip Galvanizing, Add	1,930.89	
For >10 To 25 Tons, Deduct	-586.16	
For >25 To 50 Tons, Deduct	-1,206.81	
For >50 Tons, Deduct	-1,724.01	
05 12 23 00-0053 TON Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items	5,421.63	406.69
For ASTM A242 Type 2 High Strength Steel, Add	399.03	
For Hot Dip Galvanizing, Add	1,396.59	
For >10 To 25 Tons, Deduct	-423.96	
For >25 To 50 Tons, Deduct	-872.87	
For >50 Tons, Deduct	-1,246.96	
05 12 23 00-0054 Double Extra Strong Pipes <small>(05 12 23 00-0045)</small>		
05 12 23 00-0055 TON 2" To 5" Diameter Double Extra Strong Pipe	10,005.72	1,062.26
For ASTM A242 Type 2 High Strength Steel, Add	709.81	
For Hot Dip Galvanizing, Add	2,484.32	
For >10 To 25 Tons, Deduct	-754.17	
For >25 To 50 Tons, Deduct	-1,552.70	
For >50 Tons, Deduct	-2,218.15	
05 12 23 00-0056 TON >5" To 8" Diameter Double Extra Strong Pipe	9,482.73	571.96
For ASTM A242 Type 2 High Strength Steel, Add	709.81	
For Hot Dip Galvanizing, Add	2,484.32	
For >10 To 25 Tons, Deduct	-754.17	
For >25 To 50 Tons, Deduct	-1,552.70	
For >50 Tons, Deduct	-2,218.15	
05 12 23 00-0057 Structural Pipes <small>(05 12 23 00-0045)</small>		
05 12 23 00-0058 TON 3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items	6,997.14	490.79
For ASTM A242 Type 2 High Strength Steel, Add	499.36	
For Hot Dip Galvanizing, Add	1,747.76	
For >10 To 25 Tons, Deduct	-530.57	
For >25 To 50 Tons, Deduct	-1,092.35	
For >50 Tons, Deduct	-1,560.50	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0059 TON >5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items	7,490.75	566.02
For ASTM A242 Type 2 High Strength Steel, Add	499.36	
For Hot Dip Galvanizing, Add	1,747.76	
For >10 To 25 Tons, Deduct	-530.57	
For >25 To 50 Tons, Deduct	-1,092.35	
For >50 Tons, Deduct	-1,560.50	
05 12 23 00-0060 Structural Tubing (05 12 23 00-0045)		
05 12 23 00-0061 Rectangle Structural Tubing (05 12 23 00-0060)		
05 12 23 00-0062 TON 3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle.....	11,675.25	495.75
For ASTM A242 Type 2 High Strength Steel, Add	891.72	
For Hot Dip Galvanizing, Add	3,121.01	
For >10 To 25 Tons, Deduct	-947.45	
For >25 To 50 Tons, Deduct	-1,950.63	
For >50 Tons, Deduct	-2,786.61	
05 12 23 00-0063 TON 4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle	11,756.60	571.96
For ASTM A242 Type 2 High Strength Steel, Add	891.72	
For Hot Dip Galvanizing, Add	3,121.01	
For >10 To 25 Tons, Deduct	-947.45	
For >25 To 50 Tons, Deduct	-1,950.63	
For >50 Tons, Deduct	-2,786.61	
05 12 23 00-0064 TON 5" x 4", 3", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle	10,246.94	619.68
For ASTM A242 Type 2 High Strength Steel, Add	766.88	
For Hot Dip Galvanizing, Add	2,684.07	
For >10 To 25 Tons, Deduct	-814.81	
For >25 To 50 Tons, Deduct	-1,677.54	
For >50 Tons, Deduct	-2,396.49	
05 12 23 00-0065 TON 6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle	9,710.36	743.62
For ASTM A242 Type 2 High Strength Steel, Add	713.37	
For Hot Dip Galvanizing, Add	2,496.80	
For >10 To 25 Tons, Deduct	-757.96	
For >25 To 50 Tons, Deduct	-1,560.50	
For >50 Tons, Deduct	-2,229.29	
05 12 23 00-0066 TON 7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle	9,537.82	826.16
For ASTM A242 Type 2 High Strength Steel, Add	692.52	
For Hot Dip Galvanizing, Add	2,423.82	
For >10 To 25 Tons, Deduct	-735.80	
For >25 To 50 Tons, Deduct	-1,514.89	
For >50 Tons, Deduct	-2,164.12	
05 12 23 00-0067 TON 8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle	9,671.98	1,143.32
For ASTM A242 Type 2 High Strength Steel, Add	676.19	
For Hot Dip Galvanizing, Add	2,366.68	
For >10 To 25 Tons, Deduct	-718.46	
For >25 To 50 Tons, Deduct	-1,479.18	
For >50 Tons, Deduct	-2,113.11	
05 12 23 00-0068 TON 10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle	10,038.90	1,511.41
For ASTM A242 Type 2 High Strength Steel, Add	674.14	
For Hot Dip Galvanizing, Add	2,359.48	
For >10 To 25 Tons, Deduct	-716.27	
For >25 To 50 Tons, Deduct	-1,474.68	
For >50 Tons, Deduct	-2,106.68	
05 12 23 00-0069 TON 12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle	10,276.98	1,650.96
For ASTM A242 Type 2 High Strength Steel, Add	681.27	
For Hot Dip Galvanizing, Add	2,384.45	
For >10 To 25 Tons, Deduct	-723.85	
For >25 To 50 Tons, Deduct	-1,490.28	
For >50 Tons, Deduct	-2,128.97	
05 12 23 00-0070 TON 14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle	10,498.88	1,859.05
For ASTM A242 Type 2 High Strength Steel, Add	681.27	
For Hot Dip Galvanizing, Add	2,384.45	
For >10 To 25 Tons, Deduct	-723.85	
For >25 To 50 Tons, Deduct	-1,490.28	
For >50 Tons, Deduct	-2,128.97	
05 12 23 00-0071 TON 16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle	11,070.70	2,478.74
For ASTM A242 Type 2 High Strength Steel, Add	674.14	
For Hot Dip Galvanizing, Add	2,359.48	
For >10 To 25 Tons, Deduct	-716.27	
For >25 To 50 Tons, Deduct	-1,474.68	
For >50 Tons, Deduct	-2,106.68	
05 12 23 00-0072 TON 18" x 6", 4" Weight Range 48-76 LB/LF Structural Tubing - Rectangle	12,369.73	3,905.62
For ASTM A242 Type 2 High Strength Steel, Add	656.30	
For Hot Dip Galvanizing, Add	2,297.06	
For >10 To 25 Tons, Deduct	-697.32	
For >25 To 50 Tons, Deduct	-1,435.66	
For >50 Tons, Deduct	-2,050.95	
05 12 23 00-0073 TON 20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle	13,916.22	5,702.71
For ASTM A242 Type 2 High Strength Steel, Add	626.67	
For Hot Dip Galvanizing, Add	2,193.36	
For >10 To 25 Tons, Deduct	-665.84	
For >25 To 50 Tons, Deduct	-1,370.85	
For >50 Tons, Deduct	-1,958.36	
05 12 23 00-0074 Square Structural Tubing (05 12 23 00-0060)		



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0075 TON 2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,642.20 891.72 3,121.01 -947.45 -1,950.63 -2,786.61	464.76
05 12 23 00-0076 TON 2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,675.25 891.72 3,121.01 -947.45 -1,950.63 -2,786.61	495.75
05 12 23 00-0077 TON 3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	10,469.87 784.71 2,746.49 -833.75 -1,716.55 -2,452.22	619.68
05 12 23 00-0078 TON 3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	10,379.15 766.88 2,684.07 -814.81 -1,677.54 -2,396.49	743.62
05 12 23 00-0079 TON 4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,303.57 584.97 2,047.38 -621.53 -1,279.61 -1,828.02	929.52
05 12 23 00-0080 TON 5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,445.21 584.97 2,047.38 -621.53 -1,279.61 -1,828.02	1,062.26
05 12 23 00-0081 TON 6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,898.46 584.97 2,047.38 -621.53 -1,279.61 -1,828.02	1,487.24
05 12 23 00-0082 TON 7" x 7" Weight Range 17-42 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,428.82 595.67 2,084.83 -632.90 -1,303.02 -1,861.46	1,859.05
05 12 23 00-0083 TON 8" x 8" Weight Range 20-60 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,293.63 691.97 2,421.90 -735.22 -1,513.69 -2,162.41	2,478.74
05 12 23 00-0084 TON 10" x 10" Weight Range 33-77 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	12,615.63 691.97 2,421.90 -735.22 -1,513.69 -2,162.41	3,718.11
05 12 23 00-0085 TON 12" x 12" Weight Range 40-80 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	12,100.74 595.67 2,084.83 -632.90 -1,303.02 -1,861.46	4,363.95
05 12 23 00-0086 TON 14" x 14" Weight Range 57-90 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	14,554.09 677.70 2,371.96 -720.06 -1,482.48 -2,117.83	5,702.71
05 12 23 00-0087 TON 16" x 16" Weight Range 65-105 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	16,581.61 691.97 2,421.90 -735.22 -1,513.69 -2,162.41	7,436.22

05 12 23 00-0088 Structural Shapes (05 12 23 00-0045)

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0089 TON Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF).....	8,450.95	2,711.29
For ASTM A242 Type 2 High Strength Steel, Add	331.79	
For Hot Dip Galvanizing, Add	1,161.25	
For >20 To 50 LB/LF, Deduct	-1,060.28	
For >50 To 75 LB/LF, Deduct	-1,698.01	
For >75 To 100 LB/LF, Deduct	-2,335.73	
For >10 To 25 Tons, Deduct	-352.52	
For >25 To 50 Tons, Deduct	-725.78	
For >50 Tons, Deduct	-1,036.83	
05 12 23 00-0090 TON Structural Shapes, Steel Plate A36 Structural Steel.....	8,576.05	1,084.52
Note: Up to 21.5 LB per SF		
For ASTM A242 Type 2 High Strength Steel, Add	570.71	
For Hot Dip Galvanizing, Add	1,997.49	
For >21.5 To 50 LB/LF, Deduct	-929.71	
For >10 To 25 Tons, Deduct	-606.38	
For >25 To 50 Tons, Deduct	-1,248.43	
For >50 Tons, Deduct	-1,783.47	
05 12 23 00-0091 LB Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF).....	5.01	0.24
05 12 23 00-0092 LB Structural Shapes, Galvanized Pipe Supports.....	6.13	0.24
05 12 23 00-0093 Built-Up Trusses (05 12 23 00-0045)		
05 12 23 00-0094 TON Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up.....	9,469.81	371.81
For >10 To 25 Tons, Deduct	-771.22	
For >25 To 50 Tons, Deduct	-1,587.81	
For >50 Tons, Deduct	-2,268.30	
05 12 23 00-0095 TON >50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up.....	9,382.71	206.47
For >10 To 25 Tons, Deduct	-778.80	
For >25 To 50 Tons, Deduct	-1,603.42	
For >50 Tons, Deduct	-2,290.60	
05 12 23 00-0096 TON >100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up.....	8,365.02	109.32
For >10 To 25 Tons, Deduct	-701.11	
For >25 To 50 Tons, Deduct	-1,443.47	
For >50 Tons, Deduct	-2,062.10	
05 12 23 00-0097 TON >200 LF Span Average Weight 180 LB/LF Trusses, Built-up.....	8,135.62	103.36
For >10 To 25 Tons, Deduct	-682.16	
For >25 To 50 Tons, Deduct	-1,404.45	
For >50 Tons, Deduct	-2,006.36	
05 12 23 00-0098 Masonry Plates, Filler Plates, Sole Plates And Anchor Straps (05 12 23 00-0045)		
Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0099 SF 1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	30.93	7.81
05 12 23 00-0100 SF 3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	46.40	11.68
05 12 23 00-0101 SF 1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	61.86	15.57
05 12 23 00-0102 SF 5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	77.32	19.46
05 12 23 00-0103 SF 3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	92.79	23.24
05 12 23 00-0104 SF 7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	108.26	27.24
05 12 23 00-0105 SF 1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	123.72	31.14
05 12 23 00-0106 SF 1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	139.19	35.03
05 12 23 00-0107 SF 1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	154.65	38.92
05 12 23 00-0108 SF 1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	170.11	42.81
05 12 23 00-0109 SF 1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	185.58	46.71
05 12 23 00-0110 SF 1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	201.04	50.60
05 12 23 00-0111 SF 1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	216.52	54.48
05 12 23 00-0112 SF 1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	231.99	58.38
05 12 23 00-0113 SF 2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	247.44	62.27
05 12 23 00-0114 Accessories For Steel (05 12 23)		
05 12 23 00-0115 Field Painting For Touch-Up Of Shop Prime Coat (05 12 23 00-0114)		
05 12 23 00-0116 SF Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat.....	1.24	
05 12 23 00-0117 Connection And Stiffener Plates (05 12 23 00-0114)		
Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0118 TON 1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates.....	20,594.81	
For >10 To 25 Tons, Deduct	-1,750.56	
For >25 To 50 Tons, Deduct	-3,604.09	
For >50 Tons, Deduct	-5,148.70	
05 12 23 00-0119 TON 3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates.....	17,571.41	
For >10 To 25 Tons, Deduct	-1,493.57	
For >25 To 50 Tons, Deduct	-3,075.00	
For >50 Tons, Deduct	-4,392.85	
05 12 23 00-0120 TON 1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates.....	13,588.33	
For >10 To 25 Tons, Deduct	-1,155.01	
For >25 To 50 Tons, Deduct	-2,377.96	
For >50 Tons, Deduct	-3,397.08	
05 12 23 00-0121 TON 5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates.....	13,588.33	
For >10 To 25 Tons, Deduct	-1,155.01	
For >25 To 50 Tons, Deduct	-2,377.96	
For >50 Tons, Deduct	-3,397.08	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0122	TON		3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,588.33 -1,155.01 -2,377.96 -3,397.08	
05 12 23 00-0123	TON		1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,588.33 -1,155.01 -2,377.96 -3,397.08	
05 12 23 00-0124	TON		9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,588.33 -1,155.01 -2,377.96 -3,397.08	
05 12 23 00-0125	TON		5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,588.33 -1,155.01 -2,377.96 -3,397.08	
05 12 23 00-0126	TON		3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	12,739.06 -1,082.82 -2,229.34 -3,184.77	
05 12 23 00-0127	TON		7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	12,739.06 -1,082.82 -2,229.34 -3,184.77	
05 12 23 00-0128	TON		1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	12,739.06 -1,082.82 -2,229.34 -3,184.77	
05 12 23 00-0129			Field Applied Cold Galvanizing (05 12 23 00-0114)		
05 12 23 00-0130	SF		Brush Applied Cold Galvanizing		1.93
05 12 23 00-0131			Metal Grinding (05 12 23 00-0114) Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0132	SI		Metal Grinding Up To 1/32" Thickness To Be Removed..... Note: Includes rust or scale removal on metal and smoothing surface.		1.25
05 12 23 00-0133			Structural Steel For Buildings And Structures (05 12 23) Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding.		
05 12 23 00-0134			First Tier A992/A36 Structural Steel Columns, W Shapes (05 12 23 00-0133) Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0135	LF		W14 x 730 A992/A36 Structural Column	1,639.34	75.20
			<i>For Hot Dip Galvanizing, Add</i>	432.67	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	147.54	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	327.87	
05 12 23 00-0136	LF		W14 x 665 A992/A36 Structural Column	1,495.07	70.09
			<i>For Hot Dip Galvanizing, Add</i>	394.15	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	134.56	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	299.01	
05 12 23 00-0137	LF		W14 x 605 A992/A36 Structural Column	1,361.77	65.24
			<i>For Hot Dip Galvanizing, Add</i>	358.59	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	122.56	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	272.35	
05 12 23 00-0138	LF		W14 x 550 A992/A36 Structural Column	1,239.43	60.69
			<i>For Hot Dip Galvanizing, Add</i>	325.99	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	111.55	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	247.89	
05 12 23 00-0139	LF		W14 x 500 A992/A36 Structural Column	1,136.70	64.45
			<i>For Hot Dip Galvanizing, Add</i>	296.35	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	102.30	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	227.34	
05 12 23 00-0140	LF		W14 x 426 A992/A36 Structural Column	969.84	56.27
			<i>For Hot Dip Galvanizing, Add</i>	252.49	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	87.29	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	193.97	
05 12 23 00-0141	LF		W14 x 342 A992/A36 Structural Column	784.18	48.71
			<i>For Hot Dip Galvanizing, Add</i>	203.21	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	70.58	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	156.84	
05 12 23 00-0142	LF		W14 x 311 A992/A36 Structural Column	706.25	45.49
			<i>For Hot Dip Galvanizing, Add</i>	182.52	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	63.56	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	141.25	
05 12 23 00-0143	LF		W14 x 283 A992/A36 Structural Column	641.02	42.88
			<i>For Hot Dip Galvanizing, Add</i>	165.21	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	57.69	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	128.20	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0144	LF	W14 x 257 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	563.38 144.32 50.70 112.68	40.65
05 12 23 00-0145	LF	W14 x 233 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	518.46 132.69 46.66 103.69	37.80
05 12 23 00-0146	LF	W14 x 211 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	461.13 117.54 41.50 92.23	35.20
05 12 23 00-0147	LF	W14 x 193 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	417.04 105.82 37.53 83.41	33.46
05 12 23 00-0148	LF	W14 x 176 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	375.85 94.84 33.83 75.17	31.97
05 12 23 00-0149	LF	W14 x 159 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	339.79 85.18 30.58 67.96	30.86
05 12 23 00-0150	LF	W14 x 145 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	328.37 82.28 29.55 65.67	29.87
05 12 23 00-0151	LF	W14 x 132 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	280.77 69.49 25.27 56.15	28.51
05 12 23 00-0152	LF	W14 x 120 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	263.23 64.83 23.69 52.65	27.76
05 12 23 00-0153	LF	W14 x 109 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	235.67 57.52 21.21 47.13	26.65
05 12 23 00-0154	LF	W14 x 99 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	215.00 52.03 19.35 43.00	25.90
05 12 23 00-0155	LF	W14 x 90 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	199.72 47.96 17.97 39.94	25.29
05 12 23 00-0156	LF	W14 x 82 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	183.95 43.79 16.56 36.79	24.54
05 12 23 00-0157	LF	W14 x 74 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	166.07 39.03 14.95 33.21	23.92
05 12 23 00-0158	LF	W14 x 68 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	155.10 36.09 13.96 31.02	23.55
05 12 23 00-0159	LF	W14 x 61 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	141.39 32.46 12.73 28.28	22.92
05 12 23 00-0160	LF	W14 x 53 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	128.77 29.13 11.59 25.75	22.31
05 12 23 00-0161	LF	W14 x 48 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	120.62 26.97 10.86 24.12	21.94
05 12 23 00-0162	LF	W14 x 43 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	108.81 23.83 9.79 21.76	21.57
05 12 23 00-0163	LF	W12 x 336 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	747.58 197.55 67.28 149.52	33.49
05 12 23 00-0164	LF	W12 x 305 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	681.20 179.32 61.31 136.24	32.82



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0165	LF		W12 x 279 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	625.68 164.03 56.31 125.14	32.43
05 12 23 00-0166	LF		W12 x 252 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	567.62 148.16 51.09 113.52	31.62
05 12 23 00-0167	LF		W12 x 230 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	520.52 135.23 46.85 104.10	31.16
05 12 23 00-0168	LF		W12 x 210 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	477.67 123.47 42.99 95.53	30.73
05 12 23 00-0169	LF		W12 x 190 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	439.11 111.71 39.52 87.82	34.21
05 12 23 00-0170	LF		W12 x 170 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	396.76 100.30 35.71 79.35	33.21
05 12 23 00-0171	LF		W12 x 152 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	357.64 90.13 32.19 71.53	30.86
05 12 23 00-0172	LF		W12 x 136 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	339.99 85.47 30.60 68.00	29.99
05 12 23 00-0173	LF		W12 x 120 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	257.28 63.21 23.16 51.46	27.51
05 12 23 00-0174	LF		W12 x 106 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	237.09 57.91 21.34 47.42	26.65
05 12 23 00-0175	LF		W12 x 96 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	212.05 51.24 19.08 42.41	25.78
05 12 23 00-0176	LF		W12 x 87 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	195.59 46.88 17.60 39.12	24.92
05 12 23 00-0177	LF		W12 x 79 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	171.57 40.46 15.44 34.31	24.17
05 12 23 00-0178	LF		W12 x 72 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	156.99 36.58 14.13 31.40	23.55
05 12 23 00-0179	LF		W12 x 65 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	143.47 33.00 12.91 28.69	23.06
05 12 23 00-0180	LF		W12 x 58 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	138.80 31.78 12.49 27.76	22.80
05 12 23 00-0181	LF		W12 x 53 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	128.77 29.13 11.59 25.75	22.31
05 12 23 00-0182	LF		W12 x 50 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	124.75 28.05 11.23 24.95	22.18
05 12 23 00-0183	LF		W12 x 45 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	113.30 25.01 10.20 22.66	21.69
05 12 23 00-0184	LF		W12 x 40 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	101.49 21.87 9.13 20.30	21.20
05 12 23 00-0185	LF		W10 x 112 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	248.00 60.81 22.32 49.60	27.14

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0186	LF	W10 x 110 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	224.26 54.53 20.18 44.85	26.02
05 12 23 00-0187	LF	W10 x 88 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	201.54 48.50 18.14 40.31	25.16
05 12 23 00-0188	LF	W10 x 77 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	179.17 42.57 16.13 35.83	24.17
05 12 23 00-0189	LF	W10 x 68 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	161.28 37.81 14.52 32.26	23.55
05 12 23 00-0190	LF	W10 x 60 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	141.39 32.46 12.73 28.28	22.92
05 12 23 00-0191	LF	W10 x 54 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	140.45 32.27 12.64 28.09	22.55
05 12 23 00-0192	LF	W10 x 49 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	123.22 27.66 11.09 24.64	22.18
05 12 23 00-0193	LF	W10 x 45 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	118.90 26.53 10.70 23.78	21.81
05 12 23 00-0194	LF	W10 x 39 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	103.39 22.36 9.31 20.68	21.44
05 12 23 00-0195	LF	W10 x 33 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	90.04 18.83 8.10 18.01	20.82
05 12 23 00-0196	LF	W8 x 67 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	155.28 36.14 13.98 31.06	23.55
05 12 23 00-0197	LF	W8 x 58 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	139.33 31.92 12.54 27.87	22.80
05 12 23 00-0198	LF	W8 x 48 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	124.63 28.05 11.22 24.93	22.18
05 12 23 00-0199	LF	W8 x 40 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	106.87 23.29 9.62 21.37	21.57
05 12 23 00-0200	LF	W8 x 35 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	96.47 20.55 8.68 19.29	21.06
05 12 23 00-0201	LF	W8 x 31 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	88.09 18.29 7.93 17.62	20.82
05 12 23 00-0202	LF	W8 x 28 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	82.91 16.92 7.46 16.58	20.57
05 12 23 00-0203	LF	W8 x 24 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	76.65 15.25 6.90 15.33	20.33
05 12 23 00-0204	LF	W8 x 21 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	72.51 14.17 6.53 14.50	20.20
05 12 23 00-0205	LF	W8 x 18 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	64.67 12.06 5.82 12.93	19.83
05 12 23 00-0206	LF	W6 x 25 A992/A36	Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	80.53 16.33 7.25 16.11	20.33



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0207	LF		W6 x 20 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	67.97 12.95 6.12 13.59	19.96
05 12 23 00-0208	LF		W6 x 15 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	58.15 10.40 5.23 11.63	19.34
05 12 23 00-0209	LF		W6 x 12 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	54.44 9.37 4.90 10.89	19.34
05 12 23 00-0210	LF		W6 x 9 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	49.73 8.09 4.48 9.95	19.21
05 12 23 00-0211	LF		W5 x 19 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	66.91 12.65 6.02 13.38	19.96
05 12 23 00-0212	LF		W5 x 16 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	61.54 11.23 5.54 12.31	19.83
05 12 23 00-0213	LF		W4 x 13 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	57.58 10.20 5.18 11.52	19.59
05 12 23 00-0214			A992/A36 Structural Steel Beams And Girders, W Shapes <small>(05 12 23 00-0133)</small> Note: Includes material delivery and erection.		
05 12 23 00-0215	LF		W36 x 300 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	589.58 139.23 53.06 117.92 5.02 -193.18 70.75	82.36
05 12 23 00-0216	LF		W36 x 280 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	567.44 129.95 51.07 113.49 4.68 -183.73 68.09	92.96
05 12 23 00-0217	LF		W36 x 260 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	537.09 121.87 48.34 107.42 4.39 -173.30 64.45	91.84
05 12 23 00-0218	LF		W36 x 240 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	501.74 115.74 45.16 100.35 4.17 -162.91 60.21	79.38
05 12 23 00-0219	LF		W36 x 230 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	485.56 110.92 43.70 97.11 4.00 -157.07 58.27	80.51
05 12 23 00-0220	LF		W36 x 210 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	459.74 101.27 41.38 91.95 3.65 -146.69 55.17	88.86
05 12 23 00-0221	LF		W36 x 194 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	434.59 97.81 39.11 86.92 3.52 -139.79 52.15	76.99

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0222 LF W36 x 182 A992/A36 Structural Beam Or Girder	412.19	76.43
For Hot Dip Galvanizing, Add	91.76	
For High Strength Low Alloy A572-50 Steel, Add	37.10	
For High Strength Low Alloy A588 Steel, Add	82.44	
For Each Additional Top Copes >2, Add	3.31	
For Structural Tees, WT, MT Or ST, Deduct	-132.04	
For Skewed Or Sloped Connections, Add	49.46	
05 12 23 00-0223 LF W36 x 170 A992/A36 Structural Beam Or Girder	389.45	75.55
For Hot Dip Galvanizing, Add	85.71	
For High Strength Low Alloy A572-50 Steel, Add	35.05	
For High Strength Low Alloy A588 Steel, Add	77.89	
For Each Additional Top Copes >2, Add	3.09	
For Structural Tees, WT, MT Or ST, Deduct	-124.22	
For Skewed Or Sloped Connections, Add	46.73	
05 12 23 00-0224 LF W36 x 160 A992/A36 Structural Beam Or Girder	382.41	86.01
For Hot Dip Galvanizing, Add	80.67	
For High Strength Low Alloy A572-50 Steel, Add	34.42	
For High Strength Low Alloy A588 Steel, Add	76.48	
For Each Additional Top Copes >2, Add	2.91	
For Structural Tees, WT, MT Or ST, Deduct	-120.09	
For Skewed Or Sloped Connections, Add	45.89	
05 12 23 00-0225 LF W36 x 150 A992/A36 Structural Beam Or Girder	366.56	85.39
For Hot Dip Galvanizing, Add	76.44	
For High Strength Low Alloy A572-50 Steel, Add	32.99	
For High Strength Low Alloy A588 Steel, Add	73.31	
For Each Additional Top Copes >2, Add	2.75	
For Structural Tees, WT, MT Or ST, Deduct	-114.63	
For Skewed Or Sloped Connections, Add	43.99	
05 12 23 00-0226 LF W36 x 135 A992/A36 Structural Beam Or Girder	344.39	84.65
For Hot Dip Galvanizing, Add	70.53	
For High Strength Low Alloy A572-50 Steel, Add	31.00	
For High Strength Low Alloy A588 Steel, Add	68.88	
For Each Additional Top Copes >2, Add	2.54	
For Structural Tees, WT, MT Or ST, Deduct	-107.00	
For Skewed Or Sloped Connections, Add	41.33	
05 12 23 00-0227 LF W33 x 241 A992/A36 Structural Beam Or Girder	508.03	81.87
For Hot Dip Galvanizing, Add	116.74	
For High Strength Low Alloy A572-50 Steel, Add	45.72	
For High Strength Low Alloy A588 Steel, Add	101.61	
For Each Additional Top Copes >2, Add	4.21	
For Structural Tees, WT, MT Or ST, Deduct	-164.71	
For Skewed Or Sloped Connections, Add	60.96	
05 12 23 00-0228 LF W33 x 221 A992/A36 Structural Beam Or Girder	470.98	79.86
For Hot Dip Galvanizing, Add	107.06	
For High Strength Low Alloy A572-50 Steel, Add	42.39	
For High Strength Low Alloy A588 Steel, Add	94.20	
For Each Additional Top Copes >2, Add	3.86	
For Structural Tees, WT, MT Or ST, Deduct	-152.06	
For Skewed Or Sloped Connections, Add	56.52	
05 12 23 00-0229 LF W33 x 201 A992/A36 Structural Beam Or Girder	445.07	88.24
For Hot Dip Galvanizing, Add	97.37	
For High Strength Low Alloy A572-50 Steel, Add	40.06	
For High Strength Low Alloy A588 Steel, Add	89.01	
For Each Additional Top Copes >2, Add	3.51	
For Structural Tees, WT, MT Or ST, Deduct	-141.64	
For Skewed Or Sloped Connections, Add	53.41	
05 12 23 00-0230 LF W33 x 170 A992/A36 Structural Beam Or Girder	399.44	86.63
For Hot Dip Galvanizing, Add	85.22	
For High Strength Low Alloy A572-50 Steel, Add	35.95	
For High Strength Low Alloy A588 Steel, Add	79.89	
For Each Additional Top Copes >2, Add	3.07	
For Structural Tees, WT, MT Or ST, Deduct	-125.95	
For Skewed Or Sloped Connections, Add	47.93	
05 12 23 00-0231 LF W33 x 152 A992/A36 Structural Beam Or Girder	364.23	75.31
For Hot Dip Galvanizing, Add	78.78	
For High Strength Low Alloy A572-50 Steel, Add	32.78	
For High Strength Low Alloy A588 Steel, Add	72.85	
For Each Additional Top Copes >2, Add	2.84	
For Structural Tees, WT, MT Or ST, Deduct	-115.43	
For Skewed Or Sloped Connections, Add	43.71	
05 12 23 00-0232 LF W33 x 141 A992/A36 Structural Beam Or Girder	353.94	84.89
For Hot Dip Galvanizing, Add	73.08	
For High Strength Low Alloy A572-50 Steel, Add	31.85	
For High Strength Low Alloy A588 Steel, Add	70.79	
For Each Additional Top Copes >2, Add	2.63	
For Structural Tees, WT, MT Or ST, Deduct	-110.29	
For Skewed Or Sloped Connections, Add	42.47	
05 12 23 00-0233 LF W33 x 130 A992/A36 Structural Beam Or Girder	336.02	84.28
For Hot Dip Galvanizing, Add	68.31	
For High Strength Low Alloy A572-50 Steel, Add	30.24	
For High Strength Low Alloy A588 Steel, Add	67.20	
For Each Additional Top Copes >2, Add	2.46	
For Structural Tees, WT, MT Or ST, Deduct	-104.13	
For Skewed Or Sloped Connections, Add	40.32	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0234 LF W33 x 118 A992/A36 Structural Beam Or Girder	315.14	83.53
For Hot Dip Galvanizing, Add	62.73	
For High Strength Low Alloy A572-50 Steel, Add	28.36	
For High Strength Low Alloy A588 Steel, Add	63.03	
For Each Additional Top Copes >2, Add	2.26	
For Structural Tees, WT, MT Or ST, Deduct	-96.93	
For Skewed Or Sloped Connections, Add	37.82	
05 12 23 00-0235 LF W30 x 211 A992/A36 Structural Beam Or Girder	451.49	79.71
For Hot Dip Galvanizing, Add	101.69	
For High Strength Low Alloy A572-50 Steel, Add	40.63	
For High Strength Low Alloy A588 Steel, Add	90.30	
For Each Additional Top Copes >2, Add	3.66	
For Structural Tees, WT, MT Or ST, Deduct	-145.27	
For Skewed Or Sloped Connections, Add	54.18	
05 12 23 00-0236 LF W30 x 191 A992/A36 Structural Beam Or Girder	425.30	87.63
For Hot Dip Galvanizing, Add	92.06	
For High Strength Low Alloy A572-50 Steel, Add	38.28	
For High Strength Low Alloy A588 Steel, Add	85.06	
For Each Additional Top Copes >2, Add	3.32	
For Structural Tees, WT, MT Or ST, Deduct	-134.82	
For Skewed Or Sloped Connections, Add	51.04	
05 12 23 00-0237 LF W30 x 173 A992/A36 Structural Beam Or Girder	390.81	76.07
For Hot Dip Galvanizing, Add	85.93	
For High Strength Low Alloy A572-50 Steel, Add	35.17	
For High Strength Low Alloy A588 Steel, Add	78.16	
For Each Additional Top Copes >2, Add	3.10	
For Structural Tees, WT, MT Or ST, Deduct	-124.61	
For Skewed Or Sloped Connections, Add	46.90	
05 12 23 00-0238 LF W30 x 154 A992/A36 Structural Beam Or Girder	366.87	85.52
For Hot Dip Galvanizing, Add	76.50	
For High Strength Low Alloy A572-50 Steel, Add	33.02	
For High Strength Low Alloy A588 Steel, Add	73.37	
For Each Additional Top Copes >2, Add	2.76	
For Structural Tees, WT, MT Or ST, Deduct	-114.72	
For Skewed Or Sloped Connections, Add	44.02	
05 12 23 00-0239 LF W30 x 132 A992/A36 Structural Beam Or Girder	328.17	73.40
For Hot Dip Galvanizing, Add	69.34	
For High Strength Low Alloy A572-50 Steel, Add	29.54	
For High Strength Low Alloy A588 Steel, Add	65.63	
For Each Additional Top Copes >2, Add	2.50	
For Structural Tees, WT, MT Or ST, Deduct	-103.12	
For Skewed Or Sloped Connections, Add	39.38	
05 12 23 00-0240 LF W30 x 124 A992/A36 Structural Beam Or Girder	312.98	73.35
For Hot Dip Galvanizing, Add	65.14	
For High Strength Low Alloy A572-50 Steel, Add	28.17	
For High Strength Low Alloy A588 Steel, Add	62.60	
For Each Additional Top Copes >2, Add	2.35	
For Structural Tees, WT, MT Or ST, Deduct	-97.81	
For Skewed Or Sloped Connections, Add	37.56	
05 12 23 00-0241 LF W30 x 116 A992/A36 Structural Beam Or Girder	308.57	83.41
For Hot Dip Galvanizing, Add	60.94	
For High Strength Low Alloy A572-50 Steel, Add	27.77	
For High Strength Low Alloy A588 Steel, Add	61.71	
For Each Additional Top Copes >2, Add	2.20	
For Structural Tees, WT, MT Or ST, Deduct	-94.65	
For Skewed Or Sloped Connections, Add	37.03	
05 12 23 00-0242 LF W30 x 108 A992/A36 Structural Beam Or Girder	285.59	75.11
For Hot Dip Galvanizing, Add	57.03	
For High Strength Low Alloy A572-50 Steel, Add	25.70	
For High Strength Low Alloy A588 Steel, Add	57.12	
For Each Additional Top Copes >2, Add	2.06	
For Structural Tees, WT, MT Or ST, Deduct	-87.95	
For Skewed Or Sloped Connections, Add	34.27	
05 12 23 00-0243 LF W30 x 99 A992/A36 Structural Beam Or Girder	272.77	74.74
For Hot Dip Galvanizing, Add	53.62	
For High Strength Low Alloy A572-50 Steel, Add	24.55	
For High Strength Low Alloy A588 Steel, Add	54.55	
For Each Additional Top Copes >2, Add	1.93	
For Structural Tees, WT, MT Or ST, Deduct	-83.54	
For Skewed Or Sloped Connections, Add	32.73	
05 12 23 00-0244 LF W27 x 178 A992/A36 Structural Beam Or Girder	434.23	89.07
For Hot Dip Galvanizing, Add	94.13	
For High Strength Low Alloy A572-50 Steel, Add	39.08	
For High Strength Low Alloy A588 Steel, Add	86.85	
For Each Additional Top Copes >2, Add	3.39	
For Structural Tees, WT, MT Or ST, Deduct	-137.73	
For Skewed Or Sloped Connections, Add	52.11	
05 12 23 00-0245 LF W27 x 161 A992/A36 Structural Beam Or Girder	398.26	85.71
For Hot Dip Galvanizing, Add	85.15	
For High Strength Low Alloy A572-50 Steel, Add	35.84	
For High Strength Low Alloy A588 Steel, Add	79.65	
For Each Additional Top Copes >2, Add	3.07	
For Structural Tees, WT, MT Or ST, Deduct	-125.68	
For Skewed Or Sloped Connections, Add	47.79	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0246 LF W27 x 146 A992/A36 Structural Beam Or Girder	366.43	82.68
For Hot Dip Galvanizing, Add	77.21	
For High Strength Low Alloy A572-50 Steel, Add	32.98	
For High Strength Low Alloy A588 Steel, Add	73.29	
For Each Additional Top Copes >2, Add	2.78	
For Structural Tees, WT, MT Or ST, Deduct	-115.02	
For Skewed Or Sloped Connections, Add	43.97	
05 12 23 00-0247 LF W27 x 114 A992/A36 Structural Beam Or Girder	290.52	68.68
For Hot Dip Galvanizing, Add	60.29	
For High Strength Low Alloy A572-50 Steel, Add	26.15	
For High Strength Low Alloy A588 Steel, Add	58.10	
For Each Additional Top Copes >2, Add	2.17	
For Structural Tees, WT, MT Or ST, Deduct	-90.69	
For Skewed Or Sloped Connections, Add	34.86	
05 12 23 00-0248 LF W27 x 102 A992/A36 Structural Beam Or Girder	274.08	74.74
For Hot Dip Galvanizing, Add	53.94	
For High Strength Low Alloy A572-50 Steel, Add	24.67	
For High Strength Low Alloy A588 Steel, Add	54.82	
For Each Additional Top Copes >2, Add	1.94	
For Structural Tees, WT, MT Or ST, Deduct	-83.97	
For Skewed Or Sloped Connections, Add	32.89	
05 12 23 00-0249 LF W27 x 94 A992/A36 Structural Beam Or Girder	262.05	74.23
For Hot Dip Galvanizing, Add	50.74	
For High Strength Low Alloy A572-50 Steel, Add	23.58	
For High Strength Low Alloy A588 Steel, Add	52.41	
For Each Additional Top Copes >2, Add	1.83	
For Structural Tees, WT, MT Or ST, Deduct	-79.84	
For Skewed Or Sloped Connections, Add	31.45	
05 12 23 00-0250 LF W27 x 84 A992/A36 Structural Beam Or Girder	247.37	73.74
For Hot Dip Galvanizing, Add	46.84	
For High Strength Low Alloy A572-50 Steel, Add	22.26	
For High Strength Low Alloy A588 Steel, Add	49.47	
For Each Additional Top Copes >2, Add	1.69	
For Structural Tees, WT, MT Or ST, Deduct	-74.79	
For Skewed Or Sloped Connections, Add	29.68	
05 12 23 00-0251 LF W24 x 162 A992/A36 Structural Beam Or Girder	383.60	82.17
For Hot Dip Galvanizing, Add	82.13	
For High Strength Low Alloy A572-50 Steel, Add	34.52	
For High Strength Low Alloy A588 Steel, Add	76.72	
For Each Additional Top Copes >2, Add	2.96	
For Structural Tees, WT, MT Or ST, Deduct	-121.11	
For Skewed Or Sloped Connections, Add	46.03	
05 12 23 00-0252 LF W24 x 146 A992/A36 Structural Beam Or Girder	350.76	78.78
For Hot Dip Galvanizing, Add	74.01	
For High Strength Low Alloy A572-50 Steel, Add	31.57	
For High Strength Low Alloy A588 Steel, Add	70.15	
For Each Additional Top Copes >2, Add	2.67	
For Structural Tees, WT, MT Or ST, Deduct	-110.16	
For Skewed Or Sloped Connections, Add	42.09	
05 12 23 00-0253 LF W24 x 131 A992/A36 Structural Beam Or Girder	319.53	75.20
For Hot Dip Galvanizing, Add	66.41	
For High Strength Low Alloy A572-50 Steel, Add	28.76	
For High Strength Low Alloy A588 Steel, Add	63.91	
For Each Additional Top Copes >2, Add	2.39	
For Structural Tees, WT, MT Or ST, Deduct	-99.80	
For Skewed Or Sloped Connections, Add	38.34	
05 12 23 00-0254 LF W24 x 117 A992/A36 Structural Beam Or Girder	289.94	71.45
For Hot Dip Galvanizing, Add	59.31	
For High Strength Low Alloy A572-50 Steel, Add	26.09	
For High Strength Low Alloy A588 Steel, Add	57.99	
For Each Additional Top Copes >2, Add	2.14	
For Structural Tees, WT, MT Or ST, Deduct	-90.05	
For Skewed Or Sloped Connections, Add	34.79	
05 12 23 00-0255 LF W24 x 104 A992/A36 Structural Beam Or Girder	262.05	67.56
For Hot Dip Galvanizing, Add	52.72	
For High Strength Low Alloy A572-50 Steel, Add	23.58	
For High Strength Low Alloy A588 Steel, Add	52.41	
For Each Additional Top Copes >2, Add	1.90	
For Structural Tees, WT, MT Or ST, Deduct	-80.91	
For Skewed Or Sloped Connections, Add	31.45	
05 12 23 00-0256 LF W24 x 94 A992/A36 Structural Beam Or Girder	250.91	74.23
For Hot Dip Galvanizing, Add	47.65	
For High Strength Low Alloy A572-50 Steel, Add	22.58	
For High Strength Low Alloy A588 Steel, Add	50.18	
For Each Additional Top Copes >2, Add	1.72	
For Structural Tees, WT, MT Or ST, Deduct	-75.94	
For Skewed Or Sloped Connections, Add	30.11	
05 12 23 00-0257 LF W24 x 84 A992/A36 Structural Beam Or Girder	228.91	65.81
For Hot Dip Galvanizing, Add	44.02	
For High Strength Low Alloy A572-50 Steel, Add	20.60	
For High Strength Low Alloy A588 Steel, Add	45.78	
For Each Additional Top Copes >2, Add	1.59	
For Structural Tees, WT, MT Or ST, Deduct	-69.58	
For Skewed Or Sloped Connections, Add	27.47	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0258 LF W24 x 76 A992/A36 Structural Beam Or Girder	217.67	65.32
For Hot Dip Galvanizing, Add	41.04	
For High Strength Low Alloy A572-50 Steel, Add	19.59	
For High Strength Low Alloy A588 Steel, Add	43.53	
For Each Additional Top Copes >2, Add	1.48	
For Structural Tees, WT, MT Or ST, Deduct	-65.72	
For Skewed Or Sloped Connections, Add	26.12	
05 12 23 00-0259 LF W24 x 68 A992/A36 Structural Beam Or Girder	203.49	64.94
For Hot Dip Galvanizing, Add	37.24	
For High Strength Low Alloy A572-50 Steel, Add	18.31	
For High Strength Low Alloy A588 Steel, Add	40.70	
For Each Additional Top Copes >2, Add	1.34	
For Structural Tees, WT, MT Or ST, Deduct	-60.83	
For Skewed Or Sloped Connections, Add	24.42	
05 12 23 00-0260 LF W24 x 62 A992/A36 Structural Beam Or Girder	196.09	64.57
For Hot Dip Galvanizing, Add	35.29	
For High Strength Low Alloy A572-50 Steel, Add	17.65	
For High Strength Low Alloy A588 Steel, Add	39.22	
For Each Additional Top Copes >2, Add	1.27	
For Structural Tees, WT, MT Or ST, Deduct	-58.30	
For Skewed Or Sloped Connections, Add	23.53	
05 12 23 00-0261 LF W24 x 55 A992/A36 Structural Beam Or Girder	185.94	64.32
For Hot Dip Galvanizing, Add	32.58	
For High Strength Low Alloy A572-50 Steel, Add	16.73	
For High Strength Low Alloy A588 Steel, Add	37.19	
For Each Additional Top Copes >2, Add	1.17	
For Structural Tees, WT, MT Or ST, Deduct	-54.80	
For Skewed Or Sloped Connections, Add	22.31	
05 12 23 00-0262 LF W21 x 147 A992/A36 Structural Beam Or Girder	335.80	67.58
For Hot Dip Galvanizing, Add	73.18	
For High Strength Low Alloy A572-50 Steel, Add	30.22	
For High Strength Low Alloy A588 Steel, Add	67.16	
For Each Additional Top Copes >2, Add	2.64	
For Structural Tees, WT, MT Or ST, Deduct	-106.72	
For Skewed Or Sloped Connections, Add	40.30	
05 12 23 00-0263 LF W21 x 132 A992/A36 Structural Beam Or Girder	305.68	64.56
For Hot Dip Galvanizing, Add	65.71	
For High Strength Low Alloy A572-50 Steel, Add	27.51	
For High Strength Low Alloy A588 Steel, Add	61.14	
For Each Additional Top Copes >2, Add	2.37	
For Structural Tees, WT, MT Or ST, Deduct	-96.66	
For Skewed Or Sloped Connections, Add	36.68	
05 12 23 00-0264 LF W21 x 122 A992/A36 Structural Beam Or Girder	286.57	63.48
For Hot Dip Galvanizing, Add	60.74	
For High Strength Low Alloy A572-50 Steel, Add	25.79	
For High Strength Low Alloy A588 Steel, Add	57.31	
For Each Additional Top Copes >2, Add	2.19	
For Structural Tees, WT, MT Or ST, Deduct	-90.14	
For Skewed Or Sloped Connections, Add	34.39	
05 12 23 00-0265 LF W21 x 111 A992/A36 Structural Beam Or Girder	264.67	61.44
For Hot Dip Galvanizing, Add	55.26	
For High Strength Low Alloy A572-50 Steel, Add	23.82	
For High Strength Low Alloy A588 Steel, Add	52.93	
For Each Additional Top Copes >2, Add	1.99	
For Structural Tees, WT, MT Or ST, Deduct	-82.80	
For Skewed Or Sloped Connections, Add	31.76	
05 12 23 00-0266 LF W21 x 101 A992/A36 Structural Beam Or Girder	244.62	59.47
For Hot Dip Galvanizing, Add	50.28	
For High Strength Low Alloy A572-50 Steel, Add	22.02	
For High Strength Low Alloy A588 Steel, Add	48.92	
For Each Additional Top Copes >2, Add	1.81	
For Structural Tees, WT, MT Or ST, Deduct	-76.10	
For Skewed Or Sloped Connections, Add	29.35	
05 12 23 00-0267 LF W21 x 93 A992/A36 Structural Beam Or Girder	237.86	66.55
For Hot Dip Galvanizing, Add	46.30	
For High Strength Low Alloy A572-50 Steel, Add	21.41	
For High Strength Low Alloy A588 Steel, Add	47.57	
For Each Additional Top Copes >2, Add	1.67	
For Structural Tees, WT, MT Or ST, Deduct	-72.60	
For Skewed Or Sloped Connections, Add	28.54	
05 12 23 00-0268 LF W21 x 83 A992/A36 Structural Beam Or Girder	224.61	65.81
For Hot Dip Galvanizing, Add	42.83	
For High Strength Low Alloy A572-50 Steel, Add	20.21	
For High Strength Low Alloy A588 Steel, Add	44.92	
For Each Additional Top Copes >2, Add	1.54	
For Structural Tees, WT, MT Or ST, Deduct	-68.07	
For Skewed Or Sloped Connections, Add	26.95	
05 12 23 00-0269 LF W21 x 73 A992/A36 Structural Beam Or Girder	208.36	65.32
For Hot Dip Galvanizing, Add	38.49	
For High Strength Low Alloy A572-50 Steel, Add	18.75	
For High Strength Low Alloy A588 Steel, Add	41.67	
For Each Additional Top Copes >2, Add	1.39	
For Structural Tees, WT, MT Or ST, Deduct	-62.48	
For Skewed Or Sloped Connections, Add	25.00	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0270 LF W21 x 68 A992/A36 Structural Beam Or Girder	200.17	64.94
For Hot Dip Galvanizing, Add	36.32	
For High Strength Low Alloy A572-50 Steel, Add	18.02	
For High Strength Low Alloy A588 Steel, Add	40.03	
For Each Additional Top Copes >2, Add	1.31	
For Structural Tees, WT, MT Or ST, Deduct	-59.67	
For Skewed Or Sloped Connections, Add	24.02	
05 12 23 00-0271 LF W21 x 62 A992/A36 Structural Beam Or Girder	192.77	64.57
For Hot Dip Galvanizing, Add	34.37	
For High Strength Low Alloy A572-50 Steel, Add	17.35	
For High Strength Low Alloy A588 Steel, Add	38.55	
For Each Additional Top Copes >2, Add	1.24	
For Structural Tees, WT, MT Or ST, Deduct	-57.13	
For Skewed Or Sloped Connections, Add	23.13	
05 12 23 00-0272 LF W21 x 57 A992/A36 Structural Beam Or Girder	186.08	64.45
For Hot Dip Galvanizing, Add	32.58	
For High Strength Low Alloy A572-50 Steel, Add	16.75	
For High Strength Low Alloy A588 Steel, Add	37.22	
For Each Additional Top Copes >2, Add	1.17	
For Structural Tees, WT, MT Or ST, Deduct	-54.83	
For Skewed Or Sloped Connections, Add	22.33	
05 12 23 00-0273 LF W21 x 50 A992/A36 Structural Beam Or Girder	165.03	55.89
For Hot Dip Galvanizing, Add	29.22	
For High Strength Low Alloy A572-50 Steel, Add	14.85	
For High Strength Low Alloy A588 Steel, Add	33.01	
For Each Additional Top Copes >2, Add	1.05	
For Structural Tees, WT, MT Or ST, Deduct	-48.80	
For Skewed Or Sloped Connections, Add	19.80	
05 12 23 00-0274 LF W21 x 44 A992/A36 Structural Beam Or Girder	157.24	55.64
For Hot Dip Galvanizing, Add	27.16	
For High Strength Low Alloy A572-50 Steel, Add	14.15	
For High Strength Low Alloy A588 Steel, Add	31.45	
For Each Additional Top Copes >2, Add	0.98	
For Structural Tees, WT, MT Or ST, Deduct	-46.13	
For Skewed Or Sloped Connections, Add	18.87	
05 12 23 00-0275 LF W18 x 119 A992/A36 Structural Beam Or Girder	278.63	63.26
For Hot Dip Galvanizing, Add	58.59	
For High Strength Low Alloy A572-50 Steel, Add	25.08	
For High Strength Low Alloy A588 Steel, Add	55.73	
For Each Additional Top Copes >2, Add	2.11	
For Structural Tees, WT, MT Or ST, Deduct	-87.40	
For Skewed Or Sloped Connections, Add	33.44	
05 12 23 00-0276 LF W18 x 106 A992/A36 Structural Beam Or Girder	252.02	59.95
For Hot Dip Galvanizing, Add	52.19	
For High Strength Low Alloy A572-50 Steel, Add	22.68	
For High Strength Low Alloy A588 Steel, Add	50.40	
For Each Additional Top Copes >2, Add	1.88	
For Structural Tees, WT, MT Or ST, Deduct	-78.62	
For Skewed Or Sloped Connections, Add	30.24	
05 12 23 00-0277 LF W18 x 97 A992/A36 Structural Beam Or Girder	243.26	66.55
For Hot Dip Galvanizing, Add	47.76	
For High Strength Low Alloy A572-50 Steel, Add	21.89	
For High Strength Low Alloy A588 Steel, Add	48.65	
For Each Additional Top Copes >2, Add	1.72	
For Structural Tees, WT, MT Or ST, Deduct	-74.47	
For Skewed Or Sloped Connections, Add	29.19	
05 12 23 00-0278 LF W18 x 86 A992/A36 Structural Beam Or Girder	228.05	65.94
For Hot Dip Galvanizing, Add	43.75	
For High Strength Low Alloy A572-50 Steel, Add	20.52	
For High Strength Low Alloy A588 Steel, Add	45.61	
For Each Additional Top Copes >2, Add	1.58	
For Structural Tees, WT, MT Or ST, Deduct	-69.26	
For Skewed Or Sloped Connections, Add	27.37	
05 12 23 00-0279 LF W18 x 76 A992/A36 Structural Beam Or Girder	214.35	65.32
For Hot Dip Galvanizing, Add	40.12	
For High Strength Low Alloy A572-50 Steel, Add	19.29	
For High Strength Low Alloy A588 Steel, Add	42.87	
For Each Additional Top Copes >2, Add	1.45	
For Structural Tees, WT, MT Or ST, Deduct	-64.56	
For Skewed Or Sloped Connections, Add	25.72	
05 12 23 00-0280 LF W18 x 71 A992/A36 Structural Beam Or Girder	204.33	65.20
For Hot Dip Galvanizing, Add	37.41	
For High Strength Low Alloy A572-50 Steel, Add	18.39	
For High Strength Low Alloy A588 Steel, Add	40.87	
For Each Additional Top Copes >2, Add	1.35	
For Structural Tees, WT, MT Or ST, Deduct	-61.09	
For Skewed Or Sloped Connections, Add	24.52	
05 12 23 00-0281 LF W18 x 65 A992/A36 Structural Beam Or Girder	194.58	64.94
For Hot Dip Galvanizing, Add	34.80	
For High Strength Low Alloy A572-50 Steel, Add	17.51	
For High Strength Low Alloy A588 Steel, Add	38.92	
For Each Additional Top Copes >2, Add	1.25	
For Structural Tees, WT, MT Or ST, Deduct	-57.73	
For Skewed Or Sloped Connections, Add	23.35	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0282	LF		W18 x 60 A992/A36 Structural Beam Or Girder	185.80	64.45
			For Hot Dip Galvanizing, Add	32.47	
			For High Strength Low Alloy A572-50 Steel, Add	16.72	
			For High Strength Low Alloy A588 Steel, Add	37.16	
			For Each Additional Top Copes >2, Add	1.17	
			For Structural Tees, WT, MT Or ST, Deduct	-54.71	
			For Skewed Or Sloped Connections, Add	22.30	
05 12 23 00-0283	LF		W18 x 55 A992/A36 Structural Beam Or Girder	176.96	64.32
			For Hot Dip Galvanizing, Add	30.09	
			For High Strength Low Alloy A572-50 Steel, Add	15.93	
			For High Strength Low Alloy A588 Steel, Add	35.39	
			For Each Additional Top Copes >2, Add	1.08	
			For Structural Tees, WT, MT Or ST, Deduct	-51.66	
			For Skewed Or Sloped Connections, Add	21.24	
05 12 23 00-0284	LF		W18 x 50 A992/A36 Structural Beam Or Girder	159.56	55.89
			For Hot Dip Galvanizing, Add	27.70	
			For High Strength Low Alloy A572-50 Steel, Add	14.36	
			For High Strength Low Alloy A588 Steel, Add	31.91	
			For Each Additional Top Copes >2, Add	1.00	
			For Structural Tees, WT, MT Or ST, Deduct	-46.89	
			For Skewed Or Sloped Connections, Add	19.15	
05 12 23 00-0285	LF		W18 x 46 A992/A36 Structural Beam Or Girder	152.68	55.77
			For Hot Dip Galvanizing, Add	25.86	
			For High Strength Low Alloy A572-50 Steel, Add	13.74	
			For High Strength Low Alloy A588 Steel, Add	30.54	
			For Each Additional Top Copes >2, Add	0.93	
			For Structural Tees, WT, MT Or ST, Deduct	-44.51	
			For Skewed Or Sloped Connections, Add	18.32	
05 12 23 00-0286	LF		W18 x 40 A992/A36 Structural Beam Or Girder	133.65	47.59
			For Hot Dip Galvanizing, Add	22.99	
			For High Strength Low Alloy A572-50 Steel, Add	12.03	
			For High Strength Low Alloy A588 Steel, Add	26.73	
			For Each Additional Top Copes >2, Add	0.83	
			For Structural Tees, WT, MT Or ST, Deduct	-39.15	
			For Skewed Or Sloped Connections, Add	16.04	
05 12 23 00-0287	LF		W18 x 35 A992/A36 Structural Beam Or Girder	125.00	47.47
			For Hot Dip Galvanizing, Add	20.65	
			For High Strength Low Alloy A572-50 Steel, Add	11.25	
			For High Strength Low Alloy A588 Steel, Add	25.00	
			For Each Additional Top Copes >2, Add	0.74	
			For Structural Tees, WT, MT Or ST, Deduct	-36.16	
			For Skewed Or Sloped Connections, Add	15.00	
05 12 23 00-0288	LF		W16 x 100 A992/A36 Structural Beam Or Girder	231.11	43.26
			For Hot Dip Galvanizing, Add	51.34	
			For High Strength Low Alloy A572-50 Steel, Add	20.80	
			For High Strength Low Alloy A588 Steel, Add	46.22	
			For Each Additional Top Copes >2, Add	1.85	
			For Structural Tees, WT, MT Or ST, Deduct	-73.97	
			For Skewed Or Sloped Connections, Add	27.73	
05 12 23 00-0289	LF		W16 x 89 A992/A36 Structural Beam Or Girder	211.61	42.51
			For Hot Dip Galvanizing, Add	46.13	
			For High Strength Low Alloy A572-50 Steel, Add	19.04	
			For High Strength Low Alloy A588 Steel, Add	42.32	
			For Each Additional Top Copes >2, Add	1.66	
			For Structural Tees, WT, MT Or ST, Deduct	-67.26	
			For Skewed Or Sloped Connections, Add	25.39	
05 12 23 00-0290	LF		W16 x 77 A992/A36 Structural Beam Or Girder	190.68	42.02
			For Hot Dip Galvanizing, Add	40.50	
			For High Strength Low Alloy A572-50 Steel, Add	17.16	
			For High Strength Low Alloy A588 Steel, Add	38.14	
			For Each Additional Top Copes >2, Add	1.46	
			For Structural Tees, WT, MT Or ST, Deduct	-60.03	
			For Skewed Or Sloped Connections, Add	22.88	
05 12 23 00-0291	LF		W16 x 67 A992/A36 Structural Beam Or Girder	172.86	41.40
			For Hot Dip Galvanizing, Add	35.73	
			For High Strength Low Alloy A572-50 Steel, Add	15.56	
			For High Strength Low Alloy A588 Steel, Add	34.57	
			For Each Additional Top Copes >2, Add	1.29	
			For Structural Tees, WT, MT Or ST, Deduct	-53.88	
			For Skewed Or Sloped Connections, Add	20.74	
05 12 23 00-0292	LF		W16 x 57 A992/A36 Structural Beam Or Girder	155.25	40.77
			For Hot Dip Galvanizing, Add	31.01	
			For High Strength Low Alloy A572-50 Steel, Add	13.97	
			For High Strength Low Alloy A588 Steel, Add	31.05	
			For Each Additional Top Copes >2, Add	1.12	
			For Structural Tees, WT, MT Or ST, Deduct	-47.81	
			For Skewed Or Sloped Connections, Add	18.63	
05 12 23 00-0293	LF		W16 x 50 A992/A36 Structural Beam Or Girder	142.96	40.40
			For Hot Dip Galvanizing, Add	27.70	
			For High Strength Low Alloy A572-50 Steel, Add	12.87	
			For High Strength Low Alloy A588 Steel, Add	28.59	
			For Each Additional Top Copes >2, Add	1.00	
			For Structural Tees, WT, MT Or ST, Deduct	-43.57	
			For Skewed Or Sloped Connections, Add	17.16	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0294 LF W16 x 45 A992/A36 Structural Beam Or Girder	134.31	40.16
For Hot Dip Galvanizing, Add	25.37	
For High Strength Low Alloy A572-50 Steel, Add	12.09	
For High Strength Low Alloy A588 Steel, Add	26.86	
For Each Additional Top Copes >2, Add	0.91	
For Structural Tees, WT, MT Or ST, Deduct	-40.58	
For Skewed Or Sloped Connections, Add	16.12	
05 12 23 00-0295 LF W16 x 40 A992/A36 Structural Beam Or Girder	125.34	39.79
For Hot Dip Galvanizing, Add	22.99	
For High Strength Low Alloy A572-50 Steel, Add	11.28	
For High Strength Low Alloy A588 Steel, Add	25.07	
For Each Additional Top Copes >2, Add	0.83	
For Structural Tees, WT, MT Or ST, Deduct	-37.49	
For Skewed Or Sloped Connections, Add	15.04	
05 12 23 00-0296 LF W16 x 36 A992/A36 Structural Beam Or Girder	118.33	39.54
For Hot Dip Galvanizing, Add	21.14	
For High Strength Low Alloy A572-50 Steel, Add	10.65	
For High Strength Low Alloy A588 Steel, Add	23.67	
For Each Additional Top Copes >2, Add	0.76	
For Structural Tees, WT, MT Or ST, Deduct	-35.09	
For Skewed Or Sloped Connections, Add	14.20	
05 12 23 00-0297 LF W16 x 31 A992/A36 Structural Beam Or Girder	101.18	31.48
For Hot Dip Galvanizing, Add	18.76	
For High Strength Low Alloy A572-50 Steel, Add	9.11	
For High Strength Low Alloy A588 Steel, Add	20.24	
For Each Additional Top Copes >2, Add	0.68	
For Structural Tees, WT, MT Or ST, Deduct	-30.38	
For Skewed Or Sloped Connections, Add	12.14	
05 12 23 00-0298 LF W16 x 26 A992/A36 Structural Beam Or Girder	89.89	31.11
For Hot Dip Galvanizing, Add	15.73	
For High Strength Low Alloy A572-50 Steel, Add	8.09	
For High Strength Low Alloy A588 Steel, Add	17.98	
For Each Additional Top Copes >2, Add	0.57	
For Structural Tees, WT, MT Or ST, Deduct	-26.48	
For Skewed Or Sloped Connections, Add	10.79	
05 12 23 00-0299 LF W14 x 99 A992/A36 Structural Beam Or Girder	221.05	35.44
For Hot Dip Galvanizing, Add	50.85	
For High Strength Low Alloy A572-50 Steel, Add	19.89	
For High Strength Low Alloy A588 Steel, Add	44.21	
For Each Additional Top Copes >2, Add	1.83	
For Structural Tees, WT, MT Or ST, Deduct	-71.70	
For Skewed Or Sloped Connections, Add	26.53	
05 12 23 00-0300 LF W14 x 90 A992/A36 Structural Beam Or Girder	205.19	34.83
For Hot Dip Galvanizing, Add	46.62	
For High Strength Low Alloy A572-50 Steel, Add	18.47	
For High Strength Low Alloy A588 Steel, Add	41.04	
For Each Additional Top Copes >2, Add	1.68	
For Structural Tees, WT, MT Or ST, Deduct	-66.24	
For Skewed Or Sloped Connections, Add	24.62	
05 12 23 00-0301 LF W14 x 82 A992/A36 Structural Beam Or Girder	191.03	34.46
For Hot Dip Galvanizing, Add	42.83	
For High Strength Low Alloy A572-50 Steel, Add	17.19	
For High Strength Low Alloy A588 Steel, Add	38.21	
For Each Additional Top Copes >2, Add	1.54	
For Structural Tees, WT, MT Or ST, Deduct	-61.36	
For Skewed Or Sloped Connections, Add	22.92	
05 12 23 00-0302 LF W14 x 74 A992/A36 Structural Beam Or Girder	176.87	33.95
For Hot Dip Galvanizing, Add	39.03	
For High Strength Low Alloy A572-50 Steel, Add	15.92	
For High Strength Low Alloy A588 Steel, Add	35.37	
For Each Additional Top Copes >2, Add	1.41	
For Structural Tees, WT, MT Or ST, Deduct	-56.47	
For Skewed Or Sloped Connections, Add	21.22	
05 12 23 00-0303 LF W14 x 68 A992/A36 Structural Beam Or Girder	166.31	33.58
For Hot Dip Galvanizing, Add	36.21	
For High Strength Low Alloy A572-50 Steel, Add	14.97	
For High Strength Low Alloy A588 Steel, Add	33.26	
For Each Additional Top Copes >2, Add	1.31	
For Structural Tees, WT, MT Or ST, Deduct	-52.84	
For Skewed Or Sloped Connections, Add	19.96	
05 12 23 00-0304 LF W14 x 61 A992/A36 Structural Beam Or Girder	154.03	33.21
For Hot Dip Galvanizing, Add	32.91	
For High Strength Low Alloy A572-50 Steel, Add	13.86	
For High Strength Low Alloy A588 Steel, Add	30.81	
For Each Additional Top Copes >2, Add	1.19	
For Structural Tees, WT, MT Or ST, Deduct	-48.59	
For Skewed Or Sloped Connections, Add	18.48	
05 12 23 00-0305 LF W14 x 53 A992/A36 Structural Beam Or Girder	140.06	32.72
For Hot Dip Galvanizing, Add	29.17	
For High Strength Low Alloy A572-50 Steel, Add	12.61	
For High Strength Low Alloy A588 Steel, Add	28.01	
For Each Additional Top Copes >2, Add	1.05	
For Structural Tees, WT, MT Or ST, Deduct	-43.78	
For Skewed Or Sloped Connections, Add	16.81	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0306 LF W14 x 48 A992/A36 Structural Beam Or Girder	131.09	32.35
For Hot Dip Galvanizing, Add	26.78	
For High Strength Low Alloy A572-50 Steel, Add	11.80	
For High Strength Low Alloy A588 Steel, Add	26.22	
For Each Additional Top Copes >2, Add	0.97	
For Structural Tees, WT, MT Or ST, Deduct	-40.69	
For Skewed Or Sloped Connections, Add	15.73	
05 12 23 00-0307 LF W14 x 43 A992/A36 Structural Beam Or Girder	122.24	32.23
For Hot Dip Galvanizing, Add	24.40	
For High Strength Low Alloy A572-50 Steel, Add	11.00	
For High Strength Low Alloy A588 Steel, Add	24.45	
For Each Additional Top Copes >2, Add	0.88	
For Structural Tees, WT, MT Or ST, Deduct	-37.63	
For Skewed Or Sloped Connections, Add	14.67	
05 12 23 00-0308 LF W14 x 38 A992/A36 Structural Beam Or Girder	113.46	31.97
For Hot Dip Galvanizing, Add	22.06	
For High Strength Low Alloy A572-50 Steel, Add	10.21	
For High Strength Low Alloy A588 Steel, Add	22.69	
For Each Additional Top Copes >2, Add	0.80	
For Structural Tees, WT, MT Or ST, Deduct	-34.62	
For Skewed Or Sloped Connections, Add	13.62	
05 12 23 00-0309 LF W14 x 34 A992/A36 Structural Beam Or Girder	106.39	31.60
For Hot Dip Galvanizing, Add	20.17	
For High Strength Low Alloy A572-50 Steel, Add	9.58	
For High Strength Low Alloy A588 Steel, Add	21.28	
For Each Additional Top Copes >2, Add	0.73	
For Structural Tees, WT, MT Or ST, Deduct	-32.18	
For Skewed Or Sloped Connections, Add	12.77	
05 12 23 00-0310 LF W14 x 30 A992/A36 Structural Beam Or Girder	99.30	31.48
For Hot Dip Galvanizing, Add	18.27	
For High Strength Low Alloy A572-50 Steel, Add	8.94	
For High Strength Low Alloy A588 Steel, Add	19.86	
For Each Additional Top Copes >2, Add	0.66	
For Structural Tees, WT, MT Or ST, Deduct	-29.74	
For Skewed Or Sloped Connections, Add	11.92	
05 12 23 00-0311 LF W14 x 26 A992/A36 Structural Beam Or Girder	92.21	31.11
For Hot Dip Galvanizing, Add	16.37	
For High Strength Low Alloy A572-50 Steel, Add	8.30	
For High Strength Low Alloy A588 Steel, Add	18.44	
For Each Additional Top Copes >2, Add	0.59	
For Structural Tees, WT, MT Or ST, Deduct	-27.29	
For Skewed Or Sloped Connections, Add	11.07	
05 12 23 00-0312 LF W14 x 22 A992/A36 Structural Beam Or Girder	85.33	30.99
For Hot Dip Galvanizing, Add	14.53	
For High Strength Low Alloy A572-50 Steel, Add	7.68	
For High Strength Low Alloy A588 Steel, Add	17.07	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-24.92	
For Skewed Or Sloped Connections, Add	10.24	
05 12 23 00-0313 LF W12 x 87 A992/A36 Structural Beam Or Girder	199.99	34.70
For Hot Dip Galvanizing, Add	45.21	
For High Strength Low Alloy A572-50 Steel, Add	18.00	
For High Strength Low Alloy A588 Steel, Add	40.00	
For Each Additional Top Copes >2, Add	1.63	
For Structural Tees, WT, MT Or ST, Deduct	-64.44	
For Skewed Or Sloped Connections, Add	24.00	
05 12 23 00-0314 LF W12 x 79 A992/A36 Structural Beam Or Girder	185.82	34.21
For Hot Dip Galvanizing, Add	41.42	
For High Strength Low Alloy A572-50 Steel, Add	16.72	
For High Strength Low Alloy A588 Steel, Add	37.16	
For Each Additional Top Copes >2, Add	1.49	
For Structural Tees, WT, MT Or ST, Deduct	-59.55	
For Skewed Or Sloped Connections, Add	22.30	
05 12 23 00-0315 LF W12 x 72 A992/A36 Structural Beam Or Girder	173.41	33.83
For Hot Dip Galvanizing, Add	38.11	
For High Strength Low Alloy A572-50 Steel, Add	15.61	
For High Strength Low Alloy A588 Steel, Add	34.68	
For Each Additional Top Copes >2, Add	1.37	
For Structural Tees, WT, MT Or ST, Deduct	-55.28	
For Skewed Or Sloped Connections, Add	20.81	
05 12 23 00-0316 LF W12 x 65 A992/A36 Structural Beam Or Girder	161.11	33.46
For Hot Dip Galvanizing, Add	34.80	
For High Strength Low Alloy A572-50 Steel, Add	14.50	
For High Strength Low Alloy A588 Steel, Add	32.22	
For Each Additional Top Copes >2, Add	1.25	
For Structural Tees, WT, MT Or ST, Deduct	-51.04	
For Skewed Or Sloped Connections, Add	19.33	
05 12 23 00-0317 LF W12 x 58 A992/A36 Structural Beam Or Girder	148.71	32.97
For Hot Dip Galvanizing, Add	31.50	
For High Strength Low Alloy A572-50 Steel, Add	13.38	
For High Strength Low Alloy A588 Steel, Add	29.74	
For Each Additional Top Copes >2, Add	1.14	
For Structural Tees, WT, MT Or ST, Deduct	-46.77	
For Skewed Or Sloped Connections, Add	17.85	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0318 LF W12 x 53 A992/A36 Structural Beam Or Girder	140.06	32.72
For Hot Dip Galvanizing, Add	29.17	
For High Strength Low Alloy A572-50 Steel, Add	12.61	
For High Strength Low Alloy A588 Steel, Add	28.01	
For Each Additional Top Copes >2, Add	1.05	
For Structural Tees, WT, MT Or ST, Deduct	-43.78	
For Skewed Or Sloped Connections, Add	16.81	
05 12 23 00-0319 LF W12 x 50 A992/A36 Structural Beam Or Girder	134.53	32.60
For Hot Dip Galvanizing, Add	27.70	
For High Strength Low Alloy A572-50 Steel, Add	12.11	
For High Strength Low Alloy A588 Steel, Add	26.91	
For Each Additional Top Copes >2, Add	1.00	
For Structural Tees, WT, MT Or ST, Deduct	-41.88	
For Skewed Or Sloped Connections, Add	16.14	
05 12 23 00-0320 LF W12 x 45 A992/A36 Structural Beam Or Girder	125.89	32.35
For Hot Dip Galvanizing, Add	25.37	
For High Strength Low Alloy A572-50 Steel, Add	11.33	
For High Strength Low Alloy A588 Steel, Add	25.18	
For Each Additional Top Copes >2, Add	0.91	
For Structural Tees, WT, MT Or ST, Deduct	-38.89	
For Skewed Or Sloped Connections, Add	15.11	
05 12 23 00-0321 LF W12 x 40 A992/A36 Structural Beam Or Girder	108.49	24.04
For Hot Dip Galvanizing, Add	22.99	
For High Strength Low Alloy A572-50 Steel, Add	9.76	
For High Strength Low Alloy A588 Steel, Add	21.70	
For Each Additional Top Copes >2, Add	0.83	
For Structural Tees, WT, MT Or ST, Deduct	-34.12	
For Skewed Or Sloped Connections, Add	13.02	
05 12 23 00-0322 LF W12 x 35 A992/A36 Structural Beam Or Girder	99.84	23.92
For Hot Dip Galvanizing, Add	20.65	
For High Strength Low Alloy A572-50 Steel, Add	8.99	
For High Strength Low Alloy A588 Steel, Add	19.97	
For Each Additional Top Copes >2, Add	0.74	
For Structural Tees, WT, MT Or ST, Deduct	-31.13	
For Skewed Or Sloped Connections, Add	11.98	
05 12 23 00-0323 LF W12 x 30 A992/A36 Structural Beam Or Girder	90.88	23.55
For Hot Dip Galvanizing, Add	18.27	
For High Strength Low Alloy A572-50 Steel, Add	8.18	
For High Strength Low Alloy A588 Steel, Add	18.18	
For Each Additional Top Copes >2, Add	0.66	
For Structural Tees, WT, MT Or ST, Deduct	-28.05	
For Skewed Or Sloped Connections, Add	10.91	
05 12 23 00-0324 LF W12 x 26 A992/A36 Structural Beam Or Girder	83.79	23.30
For Hot Dip Galvanizing, Add	16.37	
For High Strength Low Alloy A572-50 Steel, Add	7.54	
For High Strength Low Alloy A588 Steel, Add	16.76	
For Each Additional Top Copes >2, Add	0.59	
For Structural Tees, WT, MT Or ST, Deduct	-25.61	
For Skewed Or Sloped Connections, Add	10.05	
05 12 23 00-0325 LF W12 x 22 A992/A36 Structural Beam Or Girder	76.90	23.06
For Hot Dip Galvanizing, Add	14.53	
For High Strength Low Alloy A572-50 Steel, Add	6.92	
For High Strength Low Alloy A588 Steel, Add	15.38	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-23.23	
For Skewed Or Sloped Connections, Add	9.23	
05 12 23 00-0326 LF W12 x 19 A992/A36 Structural Beam Or Girder	71.49	22.92
For Hot Dip Galvanizing, Add	13.06	
For High Strength Low Alloy A572-50 Steel, Add	6.43	
For High Strength Low Alloy A588 Steel, Add	14.30	
For Each Additional Top Copes >2, Add	0.47	
For Structural Tees, WT, MT Or ST, Deduct	-21.36	
For Skewed Or Sloped Connections, Add	8.58	
05 12 23 00-0327 LF W12 x 16 A992/A36 Structural Beam Or Girder	66.17	22.55
For Hot Dip Galvanizing, Add	11.66	
For High Strength Low Alloy A572-50 Steel, Add	5.96	
For High Strength Low Alloy A588 Steel, Add	13.23	
For Each Additional Top Copes >2, Add	0.42	
For Structural Tees, WT, MT Or ST, Deduct	-19.53	
For Skewed Or Sloped Connections, Add	7.94	
05 12 23 00-0328 LF W12 x 14 A992/A36 Structural Beam Or Girder	62.72	22.55
For Hot Dip Galvanizing, Add	10.73	
For High Strength Low Alloy A572-50 Steel, Add	5.64	
For High Strength Low Alloy A588 Steel, Add	12.54	
For Each Additional Top Copes >2, Add	0.39	
For Structural Tees, WT, MT Or ST, Deduct	-18.35	
For Skewed Or Sloped Connections, Add	7.53	
05 12 23 00-0329 LF W10 x 68 A992/A36 Structural Beam Or Girder	158.40	25.90
For Hot Dip Galvanizing, Add	36.32	
For High Strength Low Alloy A572-50 Steel, Add	14.26	
For High Strength Low Alloy A588 Steel, Add	31.68	
For Each Additional Top Copes >2, Add	1.31	
For Structural Tees, WT, MT Or ST, Deduct	-51.31	
For Skewed Or Sloped Connections, Add	19.01	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0330 LF W10 x 60 A992/A36 Structural Beam Or Girder	144.43	25.41
For Hot Dip Galvanizing, Add	32.58	
For High Strength Low Alloy A572-50 Steel, Add	13.00	
For High Strength Low Alloy A588 Steel, Add	28.89	
For Each Additional Top Copes >2, Add	1.17	
For Structural Tees, WT, MT Or ST, Deduct	-46.50	
For Skewed Or Sloped Connections, Add	17.33	
05 12 23 00-0331 LF W10 x 54 A992/A36 Structural Beam Or Girder	133.71	24.92
For Hot Dip Galvanizing, Add	29.71	
For High Strength Low Alloy A572-50 Steel, Add	12.03	
For High Strength Low Alloy A588 Steel, Add	26.74	
For Each Additional Top Copes >2, Add	1.07	
For Structural Tees, WT, MT Or ST, Deduct	-42.80	
For Skewed Or Sloped Connections, Add	16.05	
05 12 23 00-0332 LF W10 x 49 A992/A36 Structural Beam Or Girder	124.93	24.66
For Hot Dip Galvanizing, Add	27.38	
For High Strength Low Alloy A572-50 Steel, Add	11.24	
For High Strength Low Alloy A588 Steel, Add	24.99	
For Each Additional Top Copes >2, Add	0.99	
For Structural Tees, WT, MT Or ST, Deduct	-39.79	
For Skewed Or Sloped Connections, Add	14.99	
05 12 23 00-0333 LF W10 x 45 A992/A36 Structural Beam Or Girder	117.84	24.54
For Hot Dip Galvanizing, Add	25.48	
For High Strength Low Alloy A572-50 Steel, Add	10.61	
For High Strength Low Alloy A588 Steel, Add	23.57	
For Each Additional Top Copes >2, Add	0.92	
For Structural Tees, WT, MT Or ST, Deduct	-37.34	
For Skewed Or Sloped Connections, Add	14.14	
05 12 23 00-0334 LF W10 x 39 A992/A36 Structural Beam Or Girder	107.32	24.04
For Hot Dip Galvanizing, Add	22.66	
For High Strength Low Alloy A572-50 Steel, Add	9.66	
For High Strength Low Alloy A588 Steel, Add	21.46	
For Each Additional Top Copes >2, Add	0.82	
For Structural Tees, WT, MT Or ST, Deduct	-33.71	
For Skewed Or Sloped Connections, Add	12.88	
05 12 23 00-0335 LF W10 x 33 A992/A36 Structural Beam Or Girder	96.79	23.67
For Hot Dip Galvanizing, Add	19.84	
For High Strength Low Alloy A572-50 Steel, Add	8.71	
For High Strength Low Alloy A588 Steel, Add	19.36	
For Each Additional Top Copes >2, Add	0.72	
For Structural Tees, WT, MT Or ST, Deduct	-30.08	
For Skewed Or Sloped Connections, Add	11.61	
05 12 23 00-0336 LF W10 x 30 A992/A36 Structural Beam Or Girder	91.39	23.55
For Hot Dip Galvanizing, Add	18.38	
For High Strength Low Alloy A572-50 Steel, Add	8.23	
For High Strength Low Alloy A588 Steel, Add	18.28	
For Each Additional Top Copes >2, Add	0.66	
For Structural Tees, WT, MT Or ST, Deduct	-28.21	
For Skewed Or Sloped Connections, Add	10.97	
05 12 23 00-0337 LF W10 x 26 A992/A36 Structural Beam Or Girder	84.51	23.43
For Hot Dip Galvanizing, Add	16.54	
For High Strength Low Alloy A572-50 Steel, Add	7.61	
For High Strength Low Alloy A588 Steel, Add	16.90	
For Each Additional Top Copes >2, Add	0.60	
For Structural Tees, WT, MT Or ST, Deduct	-25.84	
For Skewed Or Sloped Connections, Add	10.14	
05 12 23 00-0338 LF W10 x 22 A992/A36 Structural Beam Or Girder	77.29	23.06
For Hot Dip Galvanizing, Add	14.64	
For High Strength Low Alloy A572-50 Steel, Add	6.96	
For High Strength Low Alloy A588 Steel, Add	15.46	
For Each Additional Top Copes >2, Add	0.53	
For Structural Tees, WT, MT Or ST, Deduct	-23.37	
For Skewed Or Sloped Connections, Add	9.27	
05 12 23 00-0339 LF W10 x 19 A992/A36 Structural Beam Or Girder	72.08	22.92
For Hot Dip Galvanizing, Add	13.23	
For High Strength Low Alloy A572-50 Steel, Add	6.49	
For High Strength Low Alloy A588 Steel, Add	14.42	
For Each Additional Top Copes >2, Add	0.48	
For Structural Tees, WT, MT Or ST, Deduct	-21.57	
For Skewed Or Sloped Connections, Add	8.65	
05 12 23 00-0340 LF W10 x 17 A992/A36 Structural Beam Or Girder	68.44	22.80
For Hot Dip Galvanizing, Add	12.25	
For High Strength Low Alloy A572-50 Steel, Add	6.16	
For High Strength Low Alloy A588 Steel, Add	13.69	
For Each Additional Top Copes >2, Add	0.44	
For Structural Tees, WT, MT Or ST, Deduct	-20.31	
For Skewed Or Sloped Connections, Add	8.21	
05 12 23 00-0341 LF W10 x 15 A992/A36 Structural Beam Or Girder	65.00	22.55
For Hot Dip Galvanizing, Add	11.33	
For High Strength Low Alloy A572-50 Steel, Add	5.85	
For High Strength Low Alloy A588 Steel, Add	13.00	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-19.12	
For Skewed Or Sloped Connections, Add	7.80	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0342 LF W10 x 12 A992/A36 Structural Beam Or Girder	59.79	22.55
For Hot Dip Galvanizing, Add	9.92	
For High Strength Low Alloy A572-50 Steel, Add	5.38	
For High Strength Low Alloy A588 Steel, Add	11.96	
For Each Additional Top Copes >2, Add	0.36	
For Structural Tees, WT, MT Or ST, Deduct	-17.32	
For Skewed Or Sloped Connections, Add	7.17	
05 12 23 00-0343 LF W8 x 35 A992/A36 Structural Beam Or Girder	100.23	23.92
For Hot Dip Galvanizing, Add	20.76	
For High Strength Low Alloy A572-50 Steel, Add	9.02	
For High Strength Low Alloy A588 Steel, Add	20.05	
For Each Additional Top Copes >2, Add	0.75	
For Structural Tees, WT, MT Or ST, Deduct	-31.27	
For Skewed Or Sloped Connections, Add	12.03	
05 12 23 00-0344 LF W8 x 31 A992/A36 Structural Beam Or Girder	93.15	23.55
For Hot Dip Galvanizing, Add	18.87	
For High Strength Low Alloy A572-50 Steel, Add	8.38	
For High Strength Low Alloy A588 Steel, Add	18.63	
For Each Additional Top Copes >2, Add	0.68	
For Structural Tees, WT, MT Or ST, Deduct	-28.83	
For Skewed Or Sloped Connections, Add	11.18	
05 12 23 00-0345 LF W8 x 28 A992/A36 Structural Beam Or Girder	90.78	22.18
For Hot Dip Galvanizing, Add	18.62	
For High Strength Low Alloy A572-50 Steel, Add	8.17	
For High Strength Low Alloy A588 Steel, Add	18.16	
For Each Additional Top Copes >2, Add	0.67	
For Structural Tees, WT, MT Or ST, Deduct	-28.22	
For Skewed Or Sloped Connections, Add	10.89	
05 12 23 00-0346 LF W8 x 24 A992/A36 Structural Beam Or Girder	82.65	20.82
For Hot Dip Galvanizing, Add	16.78	
For High Strength Low Alloy A572-50 Steel, Add	7.44	
For High Strength Low Alloy A588 Steel, Add	16.53	
For Each Additional Top Copes >2, Add	0.60	
For Structural Tees, WT, MT Or ST, Deduct	-25.60	
For Skewed Or Sloped Connections, Add	9.92	
05 12 23 00-0347 LF W8 x 21 A992/A36 Structural Beam Or Girder	76.89	19.34
For Hot Dip Galvanizing, Add	15.60	
For High Strength Low Alloy A572-50 Steel, Add	6.92	
For High Strength Low Alloy A588 Steel, Add	15.38	
For Each Additional Top Copes >2, Add	0.56	
For Structural Tees, WT, MT Or ST, Deduct	-23.81	
For Skewed Or Sloped Connections, Add	9.23	
05 12 23 00-0348 LF W8 x 18 A992/A36 Structural Beam Or Girder	67.07	17.97
For Hot Dip Galvanizing, Add	13.28	
For High Strength Low Alloy A572-50 Steel, Add	6.04	
For High Strength Low Alloy A588 Steel, Add	13.41	
For Each Additional Top Copes >2, Add	0.48	
For Structural Tees, WT, MT Or ST, Deduct	-20.59	
For Skewed Or Sloped Connections, Add	8.05	
05 12 23 00-0349 LF W8 x 10 A992/A36 Structural Beam Or Girder	37.58	12.89
For Hot Dip Galvanizing, Add	6.65	
For High Strength Low Alloy A572-50 Steel, Add	3.38	
For High Strength Low Alloy A588 Steel, Add	7.52	
For Each Additional Top Copes >2, Add	0.24	
For Structural Tees, WT, MT Or ST, Deduct	-11.11	
For Skewed Or Sloped Connections, Add	4.51	
05 12 23 00-0350 LF W6 x 9 A992/A36 Structural Beam Or Girder	34.79	10.54
For Hot Dip Galvanizing, Add	6.56	
For High Strength Low Alloy A572-50 Steel, Add	3.13	
For High Strength Low Alloy A588 Steel, Add	6.96	
For Each Additional Top Copes >2, Add	0.24	
For Structural Tees, WT, MT Or ST, Deduct	-10.50	
For Skewed Or Sloped Connections, Add	4.17	
05 12 23 00-0351 A992/A36 Structural Steel, M Shapes (05 12 23 00-0133)		
Note: Includes material delivery and erection.		
05 12 23 00-0352 LF M14 x 18 A992/A36 Structural Steel	66.96	16.67
For Hot Dip Galvanizing, Add	13.65	
For High Strength Low Alloy A572-50 Steel, Add	6.03	
For High Strength Low Alloy A588 Grade B Steel, Add	13.39	
05 12 23 00-0353 LF M12 x 11.8 A992/A36 Structural Steel	47.97	14.74
For Hot Dip Galvanizing, Add	8.95	
For High Strength Low Alloy A572-50 Steel, Add	4.32	
For High Strength Low Alloy A588 Grade B Steel, Add	9.59	
05 12 23 00-0354 LF M10 x 9 A992/A36 Structural Steel	37.21	11.83
For Hot Dip Galvanizing, Add	6.83	
For High Strength Low Alloy A572-50 Steel, Add	3.35	
For High Strength Low Alloy A588 Grade B Steel, Add	7.44	
05 12 23 00-0355 LF M8 x 6.5 A992/A36 Structural Steel	26.88	8.54
For Hot Dip Galvanizing, Add	4.93	
For High Strength Low Alloy A572-50 Steel, Add	2.42	
For High Strength Low Alloy A588 Grade B Steel, Add	5.38	
05 12 23 00-0356 LF M6 x 20 A992/A36 Structural Steel	75.73	19.96
For Hot Dip Galvanizing, Add	15.17	
For High Strength Low Alloy A572-50 Steel, Add	6.82	
For High Strength Low Alloy A588 Grade B Steel, Add	15.15	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0357 LF M6 x 4.4 A992/A36 Structural Steel.....	18.18	5.78
For Hot Dip Galvanizing, Add	3.33	
For High Strength Low Alloy A572-50 Steel, Add	1.64	
For High Strength Low Alloy A588 Grade B Steel, Add	3.64	
05 12 23 00-0358 LF M5 x 18.9 A992/A36 Structural Steel.....	72.89	19.96
For Hot Dip Galvanizing, Add	14.31	
For High Strength Low Alloy A572-50 Steel, Add	6.56	
For High Strength Low Alloy A588 Grade B Steel, Add	14.58	
05 12 23 00-0359 LF M4 x 13 A992/A36 Structural Steel.....	59.70	19.59
For Hot Dip Galvanizing, Add	10.79	
For High Strength Low Alloy A572-50 Steel, Add	5.37	
For High Strength Low Alloy A588 Grade B Steel, Add	11.94	
05 12 23 00-0360 A992/A36 Structural Steel, S Shapes <small>(05 12 23 00-0133)</small>		
Note: Includes material delivery and erection.		
05 12 23 00-0361 LF S24 x 121 A992/A36 Structural Steel.....	403.28	84.42
For Hot Dip Galvanizing, Add	86.93	
For High Strength Low Alloy A572-50 Steel, Add	36.30	
For High Strength Low Alloy A588 Grade B Steel, Add	80.66	
05 12 23 00-0362 LF S24 x 106 A992/A36 Structural Steel.....	357.43	77.85
For Hot Dip Galvanizing, Add	76.15	
For High Strength Low Alloy A572-50 Steel, Add	32.17	
For High Strength Low Alloy A588 Grade B Steel, Add	71.49	
05 12 23 00-0363 LF S24 x 100 A992/A36 Structural Steel.....	341.32	77.30
For Hot Dip Galvanizing, Add	71.84	
For High Strength Low Alloy A572-50 Steel, Add	30.72	
For High Strength Low Alloy A588 Grade B Steel, Add	68.26	
05 12 23 00-0364 LF S24 x 90 A992/A36 Structural Steel.....	311.10	73.23
For Hot Dip Galvanizing, Add	64.66	
For High Strength Low Alloy A572-50 Steel, Add	28.00	
For High Strength Low Alloy A588 Grade B Steel, Add	62.22	
05 12 23 00-0365 LF S24 x 80 A992/A36 Structural Steel.....	280.17	68.53
For Hot Dip Galvanizing, Add	57.48	
For High Strength Low Alloy A572-50 Steel, Add	25.22	
For High Strength Low Alloy A588 Grade B Steel, Add	56.03	
05 12 23 00-0366 LF S20 x 96 A992/A36 Structural Steel.....	327.67	74.21
For Hot Dip Galvanizing, Add	68.97	
For High Strength Low Alloy A572-50 Steel, Add	29.49	
For High Strength Low Alloy A588 Grade B Steel, Add	65.53	
05 12 23 00-0367 LF S20 x 86 A992/A36 Structural Steel.....	297.26	69.98
For Hot Dip Galvanizing, Add	61.79	
For High Strength Low Alloy A572-50 Steel, Add	26.75	
For High Strength Low Alloy A588 Grade B Steel, Add	59.45	
05 12 23 00-0368 LF S20 x 75 A992/A36 Structural Steel.....	262.66	64.25
For Hot Dip Galvanizing, Add	53.88	
For High Strength Low Alloy A572-50 Steel, Add	23.64	
For High Strength Low Alloy A588 Grade B Steel, Add	52.53	
05 12 23 00-0369 LF S20 x 66 A992/A36 Structural Steel.....	234.31	59.51
For Hot Dip Galvanizing, Add	47.42	
For High Strength Low Alloy A572-50 Steel, Add	21.09	
For High Strength Low Alloy A588 Grade B Steel, Add	46.86	
05 12 23 00-0370 LF S18 x 70 A992/A36 Structural Steel.....	248.53	63.12
For Hot Dip Galvanizing, Add	50.29	
For High Strength Low Alloy A572-50 Steel, Add	22.37	
For High Strength Low Alloy A588 Grade B Steel, Add	49.71	
05 12 23 00-0371 LF S18 x 54.7 A992/A36 Structural Steel.....	196.97	51.91
For Hot Dip Galvanizing, Add	39.30	
For High Strength Low Alloy A572-50 Steel, Add	17.73	
For High Strength Low Alloy A588 Grade B Steel, Add	39.39	
05 12 23 00-0372 LF S15 x 50 A992/A36 Structural Steel.....	182.71	49.95
For Hot Dip Galvanizing, Add	35.92	
For High Strength Low Alloy A572-50 Steel, Add	16.44	
For High Strength Low Alloy A588 Grade B Steel, Add	36.54	
05 12 23 00-0373 LF S15 x 42.9 A992/A36 Structural Steel.....	159.17	45.11
For Hot Dip Galvanizing, Add	30.82	
For High Strength Low Alloy A572-50 Steel, Add	14.33	
For High Strength Low Alloy A588 Grade B Steel, Add	31.83	
05 12 23 00-0374 LF S12 x 50 A992/A36 Structural Steel.....	180.05	47.46
For Hot Dip Galvanizing, Add	35.92	
For High Strength Low Alloy A572-50 Steel, Add	16.20	
For High Strength Low Alloy A588 Grade B Steel, Add	36.01	
05 12 23 00-0375 LF S12 x 40.8 A992/A36 Structural Steel.....	149.08	40.76
For Hot Dip Galvanizing, Add	29.31	
For High Strength Low Alloy A572-50 Steel, Add	13.42	
For High Strength Low Alloy A588 Grade B Steel, Add	29.82	
05 12 23 00-0376 LF S12 x 35 A992/A36 Structural Steel.....	129.85	36.81
For Hot Dip Galvanizing, Add	25.14	
For High Strength Low Alloy A572-50 Steel, Add	11.69	
For High Strength Low Alloy A588 Grade B Steel, Add	25.97	
05 12 23 00-0377 LF S12 x 31.8 A992/A36 Structural Steel.....	119.87	35.20
For Hot Dip Galvanizing, Add	22.85	
For High Strength Low Alloy A572-50 Steel, Add	10.79	
For High Strength Low Alloy A588 Grade B Steel, Add	23.97	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0378 LF S10 x 35 A992/A36 Structural Steel	131.92	38.75
For Hot Dip Galvanizing, Add	25.14	
For High Strength Low Alloy A572-50 Steel, Add	11.87	
For High Strength Low Alloy A588 Grade B Steel, Add	26.38	
05 12 23 00-0379 LF S10 x 25.4 A992/A36 Structural Steel	97.32	29.60
For Hot Dip Galvanizing, Add	18.25	
For High Strength Low Alloy A572-50 Steel, Add	8.76	
For High Strength Low Alloy A588 Grade B Steel, Add	19.46	
05 12 23 00-0380 LF S8 x 23 A992/A36 Structural Steel	88.13	26.80
For Hot Dip Galvanizing, Add	16.53	
For High Strength Low Alloy A572-50 Steel, Add	7.93	
For High Strength Low Alloy A588 Grade B Steel, Add	17.63	
05 12 23 00-0381 LF S8 x 18.4 A992/A36 Structural Steel	71.71	22.57
For Hot Dip Galvanizing, Add	13.22	
For High Strength Low Alloy A572-50 Steel, Add	6.45	
For High Strength Low Alloy A588 Grade B Steel, Add	14.34	
05 12 23 00-0382 LF S7 x 20 A992/A36 Structural Steel	77.93	24.53
For Hot Dip Galvanizing, Add	14.37	
For High Strength Low Alloy A572-50 Steel, Add	7.01	
For High Strength Low Alloy A588 Grade B Steel, Add	15.59	
05 12 23 00-0383 LF S7 x 15.3 A992/A36 Structural Steel	60.68	19.76
For Hot Dip Galvanizing, Add	10.99	
For High Strength Low Alloy A572-50 Steel, Add	5.46	
For High Strength Low Alloy A588 Grade B Steel, Add	12.14	
05 12 23 00-0384 LF S6 x 17.25 A992/A36 Structural Steel	66.98	20.93
For Hot Dip Galvanizing, Add	12.39	
For High Strength Low Alloy A572-50 Steel, Add	6.03	
For High Strength Low Alloy A588 Grade B Steel, Add	13.40	
05 12 23 00-0385 LF S6 x 12.5 A992/A36 Structural Steel	57.32	19.34
For Hot Dip Galvanizing, Add	10.16	
For High Strength Low Alloy A572-50 Steel, Add	5.16	
For High Strength Low Alloy A588 Grade B Steel, Add	11.46	
05 12 23 00-0386 LF S5 x 14.75 A992/A36 Structural Steel	61.10	19.71
For Hot Dip Galvanizing, Add	11.14	
For High Strength Low Alloy A572-50 Steel, Add	5.50	
For High Strength Low Alloy A588 Grade B Steel, Add	12.22	
05 12 23 00-0387 LF S5 x 10 A992/A36 Structural Steel	51.74	19.21
For Hot Dip Galvanizing, Add	8.65	
For High Strength Low Alloy A572-50 Steel, Add	4.66	
For High Strength Low Alloy A588 Grade B Steel, Add	10.35	
05 12 23 00-0388 LF S4 x 9.5 A992/A36 Structural Steel	50.29	19.21
For Hot Dip Galvanizing, Add	8.25	
For High Strength Low Alloy A572-50 Steel, Add	4.53	
For High Strength Low Alloy A588 Grade B Steel, Add	10.06	
05 12 23 00-0389 LF S4 x 7.7 A992/A36 Structural Steel	46.96	19.21
For Hot Dip Galvanizing, Add	7.36	
For High Strength Low Alloy A572-50 Steel, Add	4.23	
For High Strength Low Alloy A588 Grade B Steel, Add	9.39	
05 12 23 00-0390 LF S3 x 7.5 A992/A36 Structural Steel	46.64	19.21
For Hot Dip Galvanizing, Add	7.27	
For High Strength Low Alloy A572-50 Steel, Add	4.20	
For High Strength Low Alloy A588 Grade B Steel, Add	9.33	
05 12 23 00-0391 LF S3 x 5.7 A992/A36 Structural Steel	42.66	19.08
For Hot Dip Galvanizing, Add	6.20	
For High Strength Low Alloy A572-50 Steel, Add	3.84	
For High Strength Low Alloy A588 Grade B Steel, Add	8.53	
05 12 23 00-0392 A992/A36 Structural Steel, HP Shapes (05 12 23 00-0133)		
Note: Includes material delivery and erection.		
05 12 23 00-0393 LF HP14 x 117 A992/A36 Structural Steel	249.16	25.01
For Hot Dip Galvanizing, Add	61.74	
For High Strength Low Alloy A572-50 Steel, Add	22.42	
For High Strength Low Alloy A588 Grade B Steel, Add	49.83	
05 12 23 00-0394 LF HP14 x 102 A992/A36 Structural Steel	217.97	23.27
For Hot Dip Galvanizing, Add	53.60	
For High Strength Low Alloy A572-50 Steel, Add	19.62	
For High Strength Low Alloy A588 Grade B Steel, Add	43.59	
05 12 23 00-0395 LF HP14 x 89 A992/A36 Structural Steel	194.17	21.83
For Hot Dip Galvanizing, Add	47.42	
For High Strength Low Alloy A572-50 Steel, Add	17.48	
For High Strength Low Alloy A588 Grade B Steel, Add	38.83	
05 12 23 00-0396 LF HP14 x 73 A992/A36 Structural Steel	160.69	20.57
For Hot Dip Galvanizing, Add	38.51	
For High Strength Low Alloy A572-50 Steel, Add	14.46	
For High Strength Low Alloy A588 Grade B Steel, Add	32.14	
05 12 23 00-0397 LF HP13 x 100 A992/A36 Structural Steel	213.71	22.82
For Hot Dip Galvanizing, Add	52.55	
For High Strength Low Alloy A572-50 Steel, Add	19.23	
For High Strength Low Alloy A588 Grade B Steel, Add	42.74	
05 12 23 00-0398 LF HP13 x 87 A992/A36 Structural Steel	189.81	21.34
For Hot Dip Galvanizing, Add	46.36	
For High Strength Low Alloy A572-50 Steel, Add	17.08	
For High Strength Low Alloy A588 Grade B Steel, Add	37.96	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0399 LF HP13 x 73 A992/A36 Structural Steel.....	160.69	20.57
For Hot Dip Galvanizing, Add	38.51	
For High Strength Low Alloy A572-50 Steel, Add	14.46	
For High Strength Low Alloy A588 Grade B Steel, Add	32.14	
05 12 23 00-0400 LF HP13 x 60 A992/A36 Structural Steel.....	136.08	19.72
For Hot Dip Galvanizing, Add	31.93	
For High Strength Low Alloy A572-50 Steel, Add	12.25	
For High Strength Low Alloy A588 Grade B Steel, Add	27.22	
05 12 23 00-0401 LF HP12 x 84 A992/A36 Structural Steel.....	179.00	22.51
For Hot Dip Galvanizing, Add	43.02	
For High Strength Low Alloy A572-50 Steel, Add	16.11	
For High Strength Low Alloy A588 Grade B Steel, Add	35.80	
05 12 23 00-0402 LF HP12 x 74 A992/A36 Structural Steel.....	158.12	21.23
For Hot Dip Galvanizing, Add	37.60	
For High Strength Low Alloy A572-50 Steel, Add	14.23	
For High Strength Low Alloy A588 Grade B Steel, Add	31.62	
05 12 23 00-0403 LF HP12 x 63 A992/A36 Structural Steel.....	136.08	19.52
For Hot Dip Galvanizing, Add	31.99	
For High Strength Low Alloy A572-50 Steel, Add	12.25	
For High Strength Low Alloy A588 Grade B Steel, Add	27.22	
05 12 23 00-0404 LF HP12 x 53 A992/A36 Structural Steel.....	124.75	18.56
For Hot Dip Galvanizing, Add	29.13	
For High Strength Low Alloy A572-50 Steel, Add	11.23	
For High Strength Low Alloy A588 Grade B Steel, Add	24.95	
05 12 23 00-0405 LF HP10 x 57 A992/A36 Structural Steel.....	131.43	19.04
For Hot Dip Galvanizing, Add	30.84	
For High Strength Low Alloy A572-50 Steel, Add	11.83	
For High Strength Low Alloy A588 Grade B Steel, Add	26.29	
05 12 23 00-0406 LF HP10 x 42 A992/A36 Structural Steel.....	108.26	17.85
For Hot Dip Galvanizing, Add	24.76	
For High Strength Low Alloy A572-50 Steel, Add	9.74	
For High Strength Low Alloy A588 Grade B Steel, Add	21.65	
05 12 23 00-0407 LF HP8 x 36 A992/A36 Structural Steel.....	94.09	16.83
For Hot Dip Galvanizing, Add	21.13	
For High Strength Low Alloy A572-50 Steel, Add	8.47	
For High Strength Low Alloy A588 Grade B Steel, Add	18.82	
05 12 23 00-0408 Lightweight Framing Steel Shapes <small>(05 12 23)</small>		
Note: Includes cutting to length. Excludes fasteners or welds. When used with structural steel shapes by TON, connecting bolts or welds are considered included with structural steel tasks by TON.		
05 12 23 00-0409 Angle Iron - L <small>(05 12 23 00-0408)</small>		
05 12 23 00-0410 1/8" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0411 LF 1/2" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	2.89	1.71
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.37	
For >1,000, Deduct	-0.50	
For 316 Stainless Steel, Add	1.95	
For Aluminum, Add	0.11	
For Galvanized Steel, Add	0.38	
For 304 Stainless Steel, Add	1.74	
For High Strength Steel (HSS), Add	0.58	
05 12 23 00-0412 LF 3/4" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	3.35	1.93
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.43	
For >1,000, Deduct	-0.57	
For 316 Stainless Steel, Add	2.46	
For Aluminum, Add	0.14	
For Galvanized Steel, Add	0.48	
For 304 Stainless Steel, Add	2.19	
For High Strength Steel (HSS), Add	0.67	
05 12 23 00-0413 LF 3/4" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	3.80	2.14
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.48	
For >1,000, Deduct	-0.64	
For 316 Stainless Steel, Add	3.04	
For Aluminum, Add	0.17	
For Galvanized Steel, Add	0.59	
For 304 Stainless Steel, Add	2.71	
For High Strength Steel (HSS), Add	0.76	
05 12 23 00-0414 LF 1" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	4.26	2.38
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.53	
For >1,000, Deduct	-0.71	
For 316 Stainless Steel, Add	3.52	
For Aluminum, Add	0.20	
For Galvanized Steel, Add	0.68	
For 304 Stainless Steel, Add	3.14	
For High Strength Steel (HSS), Add	0.85	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0415	LF		1" x 1" x 1/8" Thick, Plain Steel Angle Iron.....	4.70	2.56
			<i>For >100 To 250, Deduct</i>	-0.26	
			<i>For >250 To 500, Deduct</i>	-0.37	
			<i>For >500 To 1,000, Deduct</i>	-0.58	
			<i>For >1,000, Deduct</i>	-0.78	
			<i>For 316 Stainless Steel, Add</i>	4.10	
			<i>For Aluminum, Add</i>	0.23	
			<i>For Galvanized Steel, Add</i>	0.79	
			<i>For 304 Stainless Steel, Add</i>	3.65	
			<i>For High Strength Steel (HSS), Add</i>	0.94	
05 12 23 00-0416	LF		1-1/4" x 1-1/4" x 1/8" Thick, Plain Steel Angle Iron	5.64	3.02
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.44	
			<i>For >500 To 1,000, Deduct</i>	-0.68	
			<i>For >1,000, Deduct</i>	-0.93	
			<i>For 316 Stainless Steel, Add</i>	5.18	
			<i>For Aluminum, Add</i>	0.29	
			<i>For Galvanized Steel, Add</i>	1.00	
			<i>For 304 Stainless Steel, Add</i>	4.62	
			<i>For High Strength Steel (HSS), Add</i>	1.13	
05 12 23 00-0417	LF		1-1/2" x 1" x 1/8" Thick, Plain Steel Angle Iron	5.64	3.02
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.44	
			<i>For >500 To 1,000, Deduct</i>	-0.68	
			<i>For >1,000, Deduct</i>	-0.93	
			<i>For 316 Stainless Steel, Add</i>	5.18	
			<i>For Aluminum, Add</i>	0.29	
			<i>For Galvanized Steel, Add</i>	1.00	
			<i>For 304 Stainless Steel, Add</i>	4.62	
			<i>For High Strength Steel (HSS), Add</i>	1.13	
05 12 23 00-0418	LF		1-1/2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron	6.77	3.61
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.53	
			<i>For >500 To 1,000, Deduct</i>	-0.82	
			<i>For >1,000, Deduct</i>	-1.11	
			<i>For 316 Stainless Steel, Add</i>	6.24	
			<i>For Aluminum, Add</i>	0.35	
			<i>For Galvanized Steel, Add</i>	1.21	
			<i>For 304 Stainless Steel, Add</i>	5.56	
			<i>For High Strength Steel (HSS), Add</i>	1.35	
05 12 23 00-0419	LF		2" x 2" x 1/8" Thick, Plain Steel Angle Iron.....	9.21	4.91
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-0.72	
			<i>For >500 To 1,000, Deduct</i>	-1.12	
			<i>For >1,000, Deduct</i>	-1.51	
			<i>For 316 Stainless Steel, Add</i>	8.51	
			<i>For Aluminum, Add</i>	0.48	
			<i>For Galvanized Steel, Add</i>	1.65	
			<i>For 304 Stainless Steel, Add</i>	7.58	
			<i>For High Strength Steel (HSS), Add</i>	1.84	
05 12 23 00-0420			3/16" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0421	LF		1-1/4" x 1-1/4" x 3/16" Thick, Plain Steel Angle Iron	6.63	3.18
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.48	
			<i>For >500 To 1,000, Deduct</i>	-0.76	
			<i>For >1,000, Deduct</i>	-1.03	
			<i>For 316 Stainless Steel, Add</i>	7.62	
			<i>For Aluminum, Add</i>	0.43	
			<i>For Galvanized Steel, Add</i>	1.48	
			<i>For 304 Stainless Steel, Add</i>	6.78	
			<i>For High Strength Steel (HSS), Add</i>	1.33	
05 12 23 00-0422	LF		1-1/2" x 1" x 3/16" Thick, Plain Steel Angle Iron	6.63	3.18
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.48	
			<i>For >500 To 1,000, Deduct</i>	-0.76	
			<i>For >1,000, Deduct</i>	-1.03	
			<i>For 316 Stainless Steel, Add</i>	7.62	
			<i>For Aluminum, Add</i>	0.43	
			<i>For Galvanized Steel, Add</i>	1.48	
			<i>For 304 Stainless Steel, Add</i>	6.78	
			<i>For High Strength Steel (HSS), Add</i>	1.33	
05 12 23 00-0423	LF		1-1/2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	7.44	3.42
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.53	
			<i>For >500 To 1,000, Deduct</i>	-0.83	
			<i>For >1,000, Deduct</i>	-1.13	
			<i>For 316 Stainless Steel, Add</i>	9.25	
			<i>For Aluminum, Add</i>	0.52	
			<i>For Galvanized Steel, Add</i>	1.79	
			<i>For 304 Stainless Steel, Add</i>	8.24	
			<i>For High Strength Steel (HSS), Add</i>	1.49	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0424	LF		2" x 2" x 3/16" Thick, Plain Steel Angle Iron	8.82	3.66
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.59	
			<i>For >500 To 1,000, Deduct</i>	-0.93	
			<i>For >1,000, Deduct</i>	-1.27	
			<i>For 316 Stainless Steel, Add</i>	12.58	
			<i>For Aluminum, Add</i>	0.71	
			<i>For Galvanized Steel, Add</i>	2.44	
			<i>For 304 Stainless Steel, Add</i>	11.20	
			<i>For High Strength Steel (HSS), Add</i>	1.76	
05 12 23 00-0425	LF		2-1/2" x 2" x 3/16" Thick, Plain Steel Angle Iron	9.66	3.92
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500 To 1,000, Deduct</i>	-1.01	
			<i>For >1,000, Deduct</i>	-1.38	
			<i>For 316 Stainless Steel, Add</i>	14.18	
			<i>For Aluminum, Add</i>	0.80	
			<i>For Galvanized Steel, Add</i>	2.75	
			<i>For 304 Stainless Steel, Add</i>	12.63	
			<i>For High Strength Steel (HSS), Add</i>	1.93	
05 12 23 00-0426	LF		2-1/2" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	10.55	4.20
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.68	
			<i>For >500 To 1,000, Deduct</i>	-1.09	
			<i>For >1,000, Deduct</i>	-1.49	
			<i>For 316 Stainless Steel, Add</i>	15.84	
			<i>For Aluminum, Add</i>	0.89	
			<i>For Galvanized Steel, Add</i>	3.07	
			<i>For 304 Stainless Steel, Add</i>	14.11	
			<i>For High Strength Steel (HSS), Add</i>	2.11	
05 12 23 00-0427	LF		3" x 2" x 3/16" Thick, Plain Steel Angle Iron	10.54	4.20
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.68	
			<i>For >500 To 1,000, Deduct</i>	-1.09	
			<i>For >1,000, Deduct</i>	-1.49	
			<i>For 316 Stainless Steel, Add</i>	15.81	
			<i>For Aluminum, Add</i>	0.89	
			<i>For Galvanized Steel, Add</i>	3.06	
			<i>For 304 Stainless Steel, Add</i>	14.08	
			<i>For High Strength Steel (HSS), Add</i>	2.11	
05 12 23 00-0428	LF		3" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	11.65	4.64
			<i>For >100 To 250, Deduct</i>	-0.46	
			<i>For >250 To 500, Deduct</i>	-0.76	
			<i>For >500 To 1,000, Deduct</i>	-1.20	
			<i>For >1,000, Deduct</i>	-1.65	
			<i>For 316 Stainless Steel, Add</i>	17.47	
			<i>For Aluminum, Add</i>	0.98	
			<i>For Galvanized Steel, Add</i>	3.39	
			<i>For 304 Stainless Steel, Add</i>	15.56	
			<i>For High Strength Steel (HSS), Add</i>	2.33	
05 12 23 00-0429	LF		3" x 3" x 3/16" Thick, Plain Steel Angle Iron	12.74	5.08
			<i>For >100 To 250, Deduct</i>	-0.51	
			<i>For >250 To 500, Deduct</i>	-0.83	
			<i>For >500 To 1,000, Deduct</i>	-1.31	
			<i>For >1,000, Deduct</i>	-1.80	
			<i>For 316 Stainless Steel, Add</i>	19.10	
			<i>For Aluminum, Add</i>	1.07	
			<i>For Galvanized Steel, Add</i>	3.70	
			<i>For 304 Stainless Steel, Add</i>	17.01	
			<i>For High Strength Steel (HSS), Add</i>	2.55	
05 12 23 00-0430			1/4" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0431	LF		1-1/2" x 1" x 1/4" Thick, Plain Steel Angle Iron	7.54	3.37
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.53	
			<i>For >500 To 1,000, Deduct</i>	-0.83	
			<i>For >1,000, Deduct</i>	-1.13	
			<i>For 316 Stainless Steel, Add</i>	9.76	
			<i>For Aluminum, Add</i>	0.55	
			<i>For Galvanized Steel, Add</i>	1.89	
			<i>For 304 Stainless Steel, Add</i>	8.69	
			<i>For High Strength Steel (HSS), Add</i>	1.51	
05 12 23 00-0432	LF		1-1/2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	8.54	3.61
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.57	
			<i>For >500 To 1,000, Deduct</i>	-0.91	
			<i>For >1,000, Deduct</i>	-1.24	
			<i>For 316 Stainless Steel, Add</i>	11.94	
			<i>For Aluminum, Add</i>	0.67	
			<i>For Galvanized Steel, Add</i>	2.31	
			<i>For 304 Stainless Steel, Add</i>	10.63	
			<i>For High Strength Steel (HSS), Add</i>	1.71	

05 Metals

05 10 Structural Metal Framing

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0433	LF		2" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	10.25	3.84
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.64	
			<i>For >500 To 1,000, Deduct</i>	-1.03	
			<i>For >1,000, Deduct</i>	-1.41	
			<i>For 316 Stainless Steel, Add</i>	16.38	
			<i>For Aluminum, Add</i>	0.92	
			<i>For Galvanized Steel, Add</i>	3.17	
			<i>For 304 Stainless Steel, Add</i>	14.59	
			<i>For High Strength Steel (HSS), Add</i>	2.05	
05 12 23 00-0434	LF		2-1/2" x 2" x 1/4" Thick, Plain Steel Angle Iron	11.51	4.26
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.71	
			<i>For >500 To 1,000, Deduct</i>	-1.14	
			<i>For >1,000, Deduct</i>	-1.57	
			<i>For 316 Stainless Steel, Add</i>	18.66	
			<i>For Aluminum, Add</i>	1.05	
			<i>For Galvanized Steel, Add</i>	3.61	
			<i>For 304 Stainless Steel, Add</i>	16.62	
			<i>For High Strength Steel (HSS), Add</i>	2.30	
05 12 23 00-0435	LF		2-1/2" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	12.81	4.66
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.79	
			<i>For >500 To 1,000, Deduct</i>	-1.26	
			<i>For >1,000, Deduct</i>	-1.74	
			<i>For 316 Stainless Steel, Add</i>	21.06	
			<i>For Aluminum, Add</i>	1.18	
			<i>For Galvanized Steel, Add</i>	4.08	
			<i>For 304 Stainless Steel, Add</i>	18.75	
			<i>For High Strength Steel (HSS), Add</i>	2.56	
05 12 23 00-0436	LF		3" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	12.81	4.66
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.79	
			<i>For >500 To 1,000, Deduct</i>	-1.26	
			<i>For >1,000, Deduct</i>	-1.74	
			<i>For 316 Stainless Steel, Add</i>	21.06	
			<i>For Aluminum, Add</i>	1.18	
			<i>For Galvanized Steel, Add</i>	4.08	
			<i>For 304 Stainless Steel, Add</i>	18.75	
			<i>For High Strength Steel (HSS), Add</i>	2.56	
05 12 23 00-0437	LF		3" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	14.15	5.18
			<i>For >100 To 250, Deduct</i>	-0.52	
			<i>For >250 To 500, Deduct</i>	-0.87	
			<i>For >500 To 1,000, Deduct</i>	-1.40	
			<i>For >1,000, Deduct</i>	-1.93	
			<i>For 316 Stainless Steel, Add</i>	23.17	
			<i>For Aluminum, Add</i>	1.30	
			<i>For Galvanized Steel, Add</i>	4.49	
			<i>For 304 Stainless Steel, Add</i>	20.63	
			<i>For High Strength Steel (HSS), Add</i>	2.83	
05 12 23 00-0438	LF		3" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	15.47	5.69
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-0.96	
			<i>For >500 To 1,000, Deduct</i>	-1.53	
			<i>For >1,000, Deduct</i>	-2.11	
			<i>For 316 Stainless Steel, Add</i>	25.18	
			<i>For Aluminum, Add</i>	1.42	
			<i>For Galvanized Steel, Add</i>	4.88	
			<i>For 304 Stainless Steel, Add</i>	22.43	
			<i>For High Strength Steel (HSS), Add</i>	3.09	
05 12 23 00-0439	LF		3-1/2" x 3" x 1/4" Thick, Plain Steel Angle Iron	16.83	6.13
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.03	
			<i>For >500 To 1,000, Deduct</i>	-1.66	
			<i>For >1,000, Deduct</i>	-2.28	
			<i>For 316 Stainless Steel, Add</i>	27.74	
			<i>For Aluminum, Add</i>	1.56	
			<i>For Galvanized Steel, Add</i>	5.38	
			<i>For 304 Stainless Steel, Add</i>	24.71	
			<i>For High Strength Steel (HSS), Add</i>	3.37	
05 12 23 00-0440	LF		3-1/2" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	17.86	0.63
			<i>For >100 To 250, Deduct</i>	-0.64	
			<i>For >250 To 500, Deduct</i>	-1.09	
			<i>For >500 To 1,000, Deduct</i>	-1.75	
			<i>For >1,000, Deduct</i>	-2.40	
			<i>For 316 Stainless Steel, Add</i>	29.89	
			<i>For Aluminum, Add</i>	1.68	
			<i>For Galvanized Steel, Add</i>	5.79	
			<i>For 304 Stainless Steel, Add</i>	26.62	
			<i>For High Strength Steel (HSS), Add</i>	3.57	



Metals	05	05
Structural Metal Framing	05 10	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0441 LF 4" x 3" x 1/4" Thick, Plain Steel Angle Iron	17.86	6.40
For >100 To 250, Deduct	-0.64	
For >250 To 500, Deduct	-1.09	
For >500 To 1,000, Deduct	-1.75	
For >1,000, Deduct	-2.40	
For 316 Stainless Steel, Add	29.89	
For Aluminum, Add	1.68	
For Galvanized Steel, Add	5.79	
For 304 Stainless Steel, Add	26.62	
For High Strength Steel (HSS), Add	3.57	
05 12 23 00-0442 LF 4" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	18.84	6.66
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.14	
For >500 To 1,000, Deduct	-1.83	
For >1,000, Deduct	-2.52	
For 316 Stainless Steel, Add	31.84	
For Aluminum, Add	1.79	
For Galvanized Steel, Add	6.17	
For 304 Stainless Steel, Add	28.36	
For High Strength Steel (HSS), Add	3.77	
05 12 23 00-0443 LF 4" x 4" x 1/4" Thick, Plain Steel Angle Iron	19.88	6.94
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.19	
For >500 To 1,000, Deduct	-1.92	
For >1,000, Deduct	-2.65	
For 316 Stainless Steel, Add	33.98	
For Aluminum, Add	1.91	
For Galvanized Steel, Add	6.58	
For 304 Stainless Steel, Add	30.27	
For High Strength Steel (HSS), Add	3.98	
05 12 23 00-0444 LF 5" x 3" x 1/4" Thick, Plain Steel Angle Iron	19.88	6.94
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.19	
For >500 To 1,000, Deduct	-1.92	
For >1,000, Deduct	-2.65	
For 316 Stainless Steel, Add	33.98	
For Aluminum, Add	1.91	
For Galvanized Steel, Add	6.58	
For 304 Stainless Steel, Add	30.27	
For High Strength Steel (HSS), Add	3.98	
05 12 23 00-0445 LF 5" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	21.00	7.32
For >100 To 250, Deduct	-0.73	
For >250 To 500, Deduct	-1.26	
For >500 To 1,000, Deduct	-2.03	
For >1,000, Deduct	-2.80	
For 316 Stainless Steel, Add	35.97	
For Aluminum, Add	2.02	
For Galvanized Steel, Add	6.97	
For 304 Stainless Steel, Add	32.03	
For High Strength Steel (HSS), Add	4.20	
05 12 23 00-0446 5/16" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0447 LF 2-1/2" x 2" x 5/16" Thick, Plain Steel Angle Iron	13.84	4.95
For >100 To 250, Deduct	-0.50	
For >250 To 500, Deduct	-0.84	
For >500 To 1,000, Deduct	-1.35	
For >1,000, Deduct	-1.86	
For 316 Stainless Steel, Add	23.17	
For Aluminum, Add	1.30	
For Galvanized Steel, Add	4.49	
For 304 Stainless Steel, Add	20.63	
For High Strength Steel (HSS), Add	2.77	
05 12 23 00-0448 LF 2-1/2" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	15.04	5.25
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.90	
For >500 To 1,000, Deduct	-1.45	
For >1,000, Deduct	-2.00	
For 316 Stainless Steel, Add	25.76	
For Aluminum, Add	1.45	
For Galvanized Steel, Add	4.99	
For 304 Stainless Steel, Add	22.94	
For High Strength Steel (HSS), Add	3.01	
05 12 23 00-0449 LF 3" x 2" x 5/16" Thick, Plain Steel Angle Iron	15.04	5.25
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.90	
For >500 To 1,000, Deduct	-1.45	
For >1,000, Deduct	-2.00	
For 316 Stainless Steel, Add	25.76	
For Aluminum, Add	1.45	
For Galvanized Steel, Add	4.99	
For 304 Stainless Steel, Add	22.94	
For High Strength Steel (HSS), Add	3.01	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0450	LF		3" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	16.68	5.75
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-0.99	
			<i>For >500 To 1,000, Deduct</i>	-1.60	
			<i>For >1,000, Deduct</i>	-2.21	
			<i>For 316 Stainless Steel, Add</i>	28.83	
			<i>For Aluminum, Add</i>	1.62	
			<i>For Galvanized Steel, Add</i>	5.59	
			<i>For 304 Stainless Steel, Add</i>	25.68	
			<i>For High Strength Steel (HSS), Add</i>	3.34	
05 12 23 00-0451	LF		3" x 3" x 5/16" Thick, Plain Steel Angle Iron	18.16	6.26
			<i>For >100 To 250, Deduct</i>	-0.63	
			<i>For >250 To 500, Deduct</i>	-1.08	
			<i>For >500 To 1,000, Deduct</i>	-1.74	
			<i>For >1,000, Deduct</i>	-2.40	
			<i>For 316 Stainless Steel, Add</i>	31.42	
			<i>For Aluminum, Add</i>	1.77	
			<i>For Galvanized Steel, Add</i>	6.09	
			<i>For 304 Stainless Steel, Add</i>	27.99	
			<i>For High Strength Steel (HSS), Add</i>	3.63	
05 12 23 00-0452	LF		3-1/2" x 3" x 5/16" Thick, Plain Steel Angle Iron	19.38	6.57
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.14	
			<i>For >500 To 1,000, Deduct</i>	-1.85	
			<i>For >1,000, Deduct</i>	-2.55	
			<i>For 316 Stainless Steel, Add</i>	33.98	
			<i>For Aluminum, Add</i>	1.91	
			<i>For Galvanized Steel, Add</i>	6.58	
			<i>For 304 Stainless Steel, Add</i>	30.27	
			<i>For High Strength Steel (HSS), Add</i>	3.88	
05 12 23 00-0453	LF		3-1/2" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	20.75	6.89
			<i>For >100 To 250, Deduct</i>	-0.69	
			<i>For >250 To 500, Deduct</i>	-1.21	
			<i>For >500 To 1,000, Deduct</i>	-1.96	
			<i>For >1,000, Deduct</i>	-2.71	
			<i>For 316 Stainless Steel, Add</i>	36.99	
			<i>For Aluminum, Add</i>	2.08	
			<i>For Galvanized Steel, Add</i>	7.17	
			<i>For 304 Stainless Steel, Add</i>	32.95	
			<i>For High Strength Steel (HSS), Add</i>	4.15	
05 12 23 00-0454	LF		4" x 3" x 5/16" Thick, Plain Steel Angle Iron	20.75	6.89
			<i>For >100 To 250, Deduct</i>	-0.69	
			<i>For >250 To 500, Deduct</i>	-1.21	
			<i>For >500 To 1,000, Deduct</i>	-1.96	
			<i>For >1,000, Deduct</i>	-2.71	
			<i>For 316 Stainless Steel, Add</i>	36.99	
			<i>For Aluminum, Add</i>	2.08	
			<i>For Galvanized Steel, Add</i>	7.17	
			<i>For 304 Stainless Steel, Add</i>	32.95	
			<i>For High Strength Steel (HSS), Add</i>	4.15	
05 12 23 00-0455	LF		4" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	22.08	7.29
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.28	
			<i>For >500 To 1,000, Deduct</i>	-2.08	
			<i>For >1,000, Deduct</i>	-2.87	
			<i>For 316 Stainless Steel, Add</i>	39.55	
			<i>For Aluminum, Add</i>	2.22	
			<i>For Galvanized Steel, Add</i>	7.66	
			<i>For 304 Stainless Steel, Add</i>	35.23	
			<i>For High Strength Steel (HSS), Add</i>	4.42	
05 12 23 00-0456	LF		4" x 4" x 5/16" Thick, Plain Steel Angle Iron	23.36	7.62
			<i>For >100 To 250, Deduct</i>	-0.76	
			<i>For >250 To 500, Deduct</i>	-1.35	
			<i>For >500 To 1,000, Deduct</i>	-2.18	
			<i>For >1,000, Deduct</i>	-3.02	
			<i>For 316 Stainless Steel, Add</i>	42.24	
			<i>For Aluminum, Add</i>	2.38	
			<i>For Galvanized Steel, Add</i>	8.18	
			<i>For 304 Stainless Steel, Add</i>	37.62	
			<i>For High Strength Steel (HSS), Add</i>	4.67	
05 12 23 00-0457	LF		5" x 3" x 5/16" Thick, Plain Steel Angle Iron	23.36	7.62
			<i>For >100 To 250, Deduct</i>	-0.76	
			<i>For >250 To 500, Deduct</i>	-1.35	
			<i>For >500 To 1,000, Deduct</i>	-2.18	
			<i>For >1,000, Deduct</i>	-3.02	
			<i>For 316 Stainless Steel, Add</i>	42.24	
			<i>For Aluminum, Add</i>	2.38	
			<i>For Galvanized Steel, Add</i>	8.18	
			<i>For 304 Stainless Steel, Add</i>	37.62	
			<i>For High Strength Steel (HSS), Add</i>	4.67	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0458	LF		5" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	24.55	7.93
			<i>For >100 To 250, Deduct</i>	-0.79	
			<i>For >250 To 500, Deduct</i>	-1.41	
			<i>For >500 To 1,000, Deduct</i>	-2.29	
			<i>For >1,000, Deduct</i>	-3.16	
			<i>For 316 Stainless Steel, Add</i>	44.70	
			<i>For Aluminum, Add</i>	2.51	
			<i>For Galvanized Steel, Add</i>	8.66	
			<i>For 304 Stainless Steel, Add</i>	39.81	
			<i>For High Strength Steel (HSS), Add</i>	4.91	
05 12 23 00-0459	LF		5" x 5" x 5/16" Thick, Plain Steel Angle Iron	27.60	8.26
			<i>For >100 To 250, Deduct</i>	-0.83	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500 To 1,000, Deduct</i>	-2.48	
			<i>For >1,000, Deduct</i>	-3.45	
			<i>For 316 Stainless Steel, Add</i>	53.06	
			<i>For Aluminum, Add</i>	2.98	
			<i>For Galvanized Steel, Add</i>	10.28	
			<i>For 304 Stainless Steel, Add</i>	47.25	
			<i>For High Strength Steel (HSS), Add</i>	5.52	
05 12 23 00-0460	LF		6" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	27.22	8.61
			<i>For >100 To 250, Deduct</i>	-0.86	
			<i>For >250 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-2.51	
			<i>For >1,000, Deduct</i>	-3.48	
			<i>For 316 Stainless Steel, Add</i>	50.34	
			<i>For Aluminum, Add</i>	2.83	
			<i>For Galvanized Steel, Add</i>	9.75	
			<i>For 304 Stainless Steel, Add</i>	44.83	
			<i>For High Strength Steel (HSS), Add</i>	5.44	
05 12 23 00-0461			3/8" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0462	LF		3" x 2" x 3/8" Thick, Plain Steel Angle Iron	16.79	5.49
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-0.97	
			<i>For >500 To 1,000, Deduct</i>	-1.57	
			<i>For >1,000, Deduct</i>	-2.17	
			<i>For 316 Stainless Steel, Add</i>	30.30	
			<i>For Aluminum, Add</i>	1.70	
			<i>For Galvanized Steel, Add</i>	5.87	
			<i>For 304 Stainless Steel, Add</i>	26.99	
			<i>For High Strength Steel (HSS), Add</i>	3.36	
05 12 23 00-0463	LF		3" x 2-1/2" x 3/8" Thick, Plain Steel Angle Iron	18.55	5.94
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.06	
			<i>For >500 To 1,000, Deduct</i>	-1.72	
			<i>For >1,000, Deduct</i>	-2.38	
			<i>For 316 Stainless Steel, Add</i>	33.98	
			<i>For Aluminum, Add</i>	1.91	
			<i>For Galvanized Steel, Add</i>	6.58	
			<i>For 304 Stainless Steel, Add</i>	30.27	
			<i>For High Strength Steel (HSS), Add</i>	3.71	
05 12 23 00-0464	LF		3" x 3" x 3/8" Thick, Plain Steel Angle Iron	20.10	6.41
			<i>For >100 To 250, Deduct</i>	-0.64	
			<i>For >250 To 500, Deduct</i>	-1.14	
			<i>For >500 To 1,000, Deduct</i>	-1.86	
			<i>For >1,000, Deduct</i>	-2.58	
			<i>For 316 Stainless Steel, Add</i>	36.99	
			<i>For Aluminum, Add</i>	2.08	
			<i>For Galvanized Steel, Add</i>	7.17	
			<i>For 304 Stainless Steel, Add</i>	32.95	
			<i>For High Strength Steel (HSS), Add</i>	4.02	
05 12 23 00-0465	LF		3-1/2" x 3" x 3/8" Thick, Plain Steel Angle Iron	21.49	6.58
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.20	
			<i>For >500 To 1,000, Deduct</i>	-1.95	
			<i>For >1,000, Deduct</i>	-2.71	
			<i>For 316 Stainless Steel, Add</i>	40.70	
			<i>For Aluminum, Add</i>	2.29	
			<i>For Galvanized Steel, Add</i>	7.89	
			<i>For 304 Stainless Steel, Add</i>	36.25	
			<i>For High Strength Steel (HSS), Add</i>	4.30	
05 12 23 00-0466	LF		3-1/2" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	22.91	6.94
			<i>For >100 To 250, Deduct</i>	-0.69	
			<i>For >250 To 500, Deduct</i>	-1.27	
			<i>For >500 To 1,000, Deduct</i>	-2.07	
			<i>For >1,000, Deduct</i>	-2.88	
			<i>For 316 Stainless Steel, Add</i>	43.68	
			<i>For Aluminum, Add</i>	2.46	
			<i>For Galvanized Steel, Add</i>	8.46	
			<i>For 304 Stainless Steel, Add</i>	38.90	
			<i>For High Strength Steel (HSS), Add</i>	4.58	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0467	LF		4" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	22.91	6.94
			<i>For >100 To 250, Deduct</i>	-0.69	
			<i>For >250 To 500, Deduct</i>	-1.27	
			<i>For >500 To 1,000, Deduct</i>	-2.07	
			<i>For >1,000, Deduct</i>	-2.88	
			<i>For 316 Stainless Steel, Add</i>	43.68	
			<i>For Aluminum, Add</i>	2.46	
			<i>For Galvanized Steel, Add</i>	8.46	
			<i>For 304 Stainless Steel, Add</i>	38.90	
			<i>For High Strength Steel (HSS), Add</i>	4.58	
05 12 23 00-0468	LF		4" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	24.69	7.57
			<i>For >100 To 250, Deduct</i>	-0.76	
			<i>For >250 To 500, Deduct</i>	-1.37	
			<i>For >500 To 1,000, Deduct</i>	-2.24	
			<i>For >1,000, Deduct</i>	-3.11	
			<i>For 316 Stainless Steel, Add</i>	46.75	
			<i>For Aluminum, Add</i>	2.63	
			<i>For Galvanized Steel, Add</i>	9.06	
			<i>For 304 Stainless Steel, Add</i>	41.64	
			<i>For High Strength Steel (HSS), Add</i>	4.94	
05 12 23 00-0469	LF		4" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	26.11	7.79
			<i>For >100 To 250, Deduct</i>	-0.78	
			<i>For >250 To 500, Deduct</i>	-1.43	
			<i>For >500 To 1,000, Deduct</i>	-2.34	
			<i>For >1,000, Deduct</i>	-3.26	
			<i>For 316 Stainless Steel, Add</i>	50.34	
			<i>For Aluminum, Add</i>	2.83	
			<i>For Galvanized Steel, Add</i>	9.75	
			<i>For 304 Stainless Steel, Add</i>	44.83	
			<i>For High Strength Steel (HSS), Add</i>	5.22	
05 12 23 00-0470	LF		5" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	26.52	8.09
			<i>For >100 To 250, Deduct</i>	-0.81	
			<i>For >250 To 500, Deduct</i>	-1.47	
			<i>For >500 To 1,000, Deduct</i>	-2.41	
			<i>For >1,000, Deduct</i>	-3.34	
			<i>For 316 Stainless Steel, Add</i>	50.34	
			<i>For Aluminum, Add</i>	2.83	
			<i>For Galvanized Steel, Add</i>	9.75	
			<i>For 304 Stainless Steel, Add</i>	44.83	
			<i>For High Strength Steel (HSS), Add</i>	5.30	
05 12 23 00-0471	LF		5" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	28.34	8.72
			<i>For >100 To 250, Deduct</i>	-0.87	
			<i>For >250 To 500, Deduct</i>	-1.58	
			<i>For >500 To 1,000, Deduct</i>	-2.58	
			<i>For >1,000, Deduct</i>	-3.58	
			<i>For 316 Stainless Steel, Add</i>	53.44	
			<i>For Aluminum, Add</i>	3.01	
			<i>For Galvanized Steel, Add</i>	10.35	
			<i>For 304 Stainless Steel, Add</i>	47.60	
			<i>For High Strength Steel (HSS), Add</i>	5.67	
05 12 23 00-0472	LF		5" x 5" x 3/8" Thick, Plain Steel Angle Iron.....	33.35	10.17
			<i>For >100 To 250, Deduct</i>	-1.02	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500 To 1,000, Deduct</i>	-3.02	
			<i>For >1,000, Deduct</i>	-4.20	
			<i>For 316 Stainless Steel, Add</i>	63.36	
			<i>For Aluminum, Add</i>	3.56	
			<i>For Galvanized Steel, Add</i>	12.28	
			<i>For 304 Stainless Steel, Add</i>	56.43	
			<i>For High Strength Steel (HSS), Add</i>	6.67	
05 12 23 00-0473	LF		6" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	31.38	9.45
			<i>For >100 To 250, Deduct</i>	-0.95	
			<i>For >250 To 500, Deduct</i>	-1.73	
			<i>For >500 To 1,000, Deduct</i>	-2.83	
			<i>For >1,000, Deduct</i>	-3.93	
			<i>For 316 Stainless Steel, Add</i>	60.10	
			<i>For Aluminum, Add</i>	3.38	
			<i>For Galvanized Steel, Add</i>	11.64	
			<i>For 304 Stainless Steel, Add</i>	53.52	
			<i>For High Strength Steel (HSS), Add</i>	6.28	
05 12 23 00-0474	LF		6" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	33.35	10.17
			<i>For >100 To 250, Deduct</i>	-1.02	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500 To 1,000, Deduct</i>	-3.02	
			<i>For >1,000, Deduct</i>	-4.20	
			<i>For 316 Stainless Steel, Add</i>	63.36	
			<i>For Aluminum, Add</i>	3.56	
			<i>For Galvanized Steel, Add</i>	12.28	
			<i>For 304 Stainless Steel, Add</i>	56.43	
			<i>For High Strength Steel (HSS), Add</i>	6.67	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0475 LF 6" x 6" x 3/8" Thick, Plain Steel Angle Iron	40.24	12.20
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.23	
For >500 To 1,000, Deduct	-3.64	
For >1,000, Deduct	-5.05	
For 316 Stainless Steel, Add	76.74	
For Aluminum, Add	4.32	
For Galvanized Steel, Add	14.87	
For 304 Stainless Steel, Add	68.34	
For High Strength Steel (HSS), Add	8.05	
05 12 23 00-0476 LF 7" x 4" x 3/8" Thick, Plain Steel Angle Iron	36.79	11.18
For >100 To 250, Deduct	-1.12	
For >250 To 500, Deduct	-2.04	
For >500 To 1,000, Deduct	-3.33	
For >1,000, Deduct	-4.62	
For 316 Stainless Steel, Add	70.02	
For Aluminum, Add	3.94	
For Galvanized Steel, Add	13.57	
For 304 Stainless Steel, Add	62.36	
For High Strength Steel (HSS), Add	7.36	
05 12 23 00-0477 1/2" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0478 LF 3" x 3" x 1/2" Thick, Plain Steel Angle Iron	23.85	6.55
For >100 To 250, Deduct	-0.65	
For >250 To 500, Deduct	-1.25	
For >500 To 1,000, Deduct	-2.06	
For >1,000, Deduct	-2.88	
For 316 Stainless Steel, Add	48.42	
For Aluminum, Add	2.72	
For Galvanized Steel, Add	9.38	
For 304 Stainless Steel, Add	43.12	
For High Strength Steel (HSS), Add	4.77	
05 12 23 00-0479 LF 4" x 3" x 1/2" Thick, Plain Steel Angle Iron	28.18	7.73
For >100 To 250, Deduct	-0.77	
For >250 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-2.44	
For >1,000, Deduct	-3.40	
For 316 Stainless Steel, Add	57.18	
For Aluminum, Add	3.22	
For Galvanized Steel, Add	11.08	
For 304 Stainless Steel, Add	50.93	
For High Strength Steel (HSS), Add	5.64	
05 12 23 00-0480 LF 4" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	30.19	8.28
For >100 To 250, Deduct	-0.83	
For >250 To 500, Deduct	-1.58	
For >500 To 1,000, Deduct	-2.61	
For >1,000, Deduct	-3.64	
For 316 Stainless Steel, Add	61.28	
For Aluminum, Add	3.45	
For Galvanized Steel, Add	11.87	
For 304 Stainless Steel, Add	54.58	
For High Strength Steel (HSS), Add	6.04	
05 12 23 00-0481 LF 4" x 4" x 1/2" Thick, Plain Steel Angle Iron	32.49	8.92
For >100 To 250, Deduct	-0.89	
For >250 To 500, Deduct	-1.70	
For >500 To 1,000, Deduct	-2.81	
For >1,000, Deduct	-3.92	
For 316 Stainless Steel, Add	65.92	
For Aluminum, Add	3.71	
For Galvanized Steel, Add	12.77	
For 304 Stainless Steel, Add	58.71	
For High Strength Steel (HSS), Add	6.50	
05 12 23 00-0482 LF 5" x 3" x 1/2" Thick, Plain Steel Angle Iron	32.49	8.92
For >100 To 250, Deduct	-0.89	
For >250 To 500, Deduct	-1.70	
For >500 To 1,000, Deduct	-2.81	
For >1,000, Deduct	-3.92	
For 316 Stainless Steel, Add	65.92	
For Aluminum, Add	3.71	
For Galvanized Steel, Add	12.77	
For 304 Stainless Steel, Add	58.71	
For High Strength Steel (HSS), Add	6.50	
05 12 23 00-0483 LF 5" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	34.51	9.47
For >100 To 250, Deduct	-0.95	
For >250 To 500, Deduct	-1.81	
For >500 To 1,000, Deduct	-2.99	
For >1,000, Deduct	-4.17	
For 316 Stainless Steel, Add	70.05	
For Aluminum, Add	3.94	
For Galvanized Steel, Add	13.57	
For 304 Stainless Steel, Add	62.39	
For High Strength Steel (HSS), Add	6.90	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0484	LF		5" x 5" x 1/2" Thick, Plain Steel Angle Iron.....	41.11	11.28
			<i>For >100 To 250, Deduct</i>	-1.13	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500 To 1,000, Deduct</i>	-3.56	
			<i>For >1,000, Deduct</i>	-4.96	
			<i>For 316 Stainless Steel, Add</i>	83.42	
			<i>For Aluminum, Add</i>	4.69	
			<i>For Galvanized Steel, Add</i>	16.16	
			<i>For 304 Stainless Steel, Add</i>	74.30	
			<i>For High Strength Steel (HSS), Add</i>	8.22	
05 12 23 00-0485	LF		6" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	41.11	11.28
			<i>For >100 To 250, Deduct</i>	-1.13	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500 To 1,000, Deduct</i>	-3.56	
			<i>For >1,000, Deduct</i>	-4.96	
			<i>For 316 Stainless Steel, Add</i>	83.42	
			<i>For Aluminum, Add</i>	4.69	
			<i>For Galvanized Steel, Add</i>	16.16	
			<i>For 304 Stainless Steel, Add</i>	74.30	
			<i>For High Strength Steel (HSS), Add</i>	8.22	
05 12 23 00-0486	LF		6" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	49.73	13.64
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-2.61	
			<i>For >500 To 1,000, Deduct</i>	-4.31	
			<i>For >1,000, Deduct</i>	-6.00	
			<i>For 316 Stainless Steel, Add</i>	100.93	
			<i>For Aluminum, Add</i>	5.68	
			<i>For Galvanized Steel, Add</i>	19.55	
			<i>For 304 Stainless Steel, Add</i>	89.89	
			<i>For High Strength Steel (HSS), Add</i>	9.95	
05 12 23 00-0487	LF		7" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	45.41	12.46
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-2.38	
			<i>For >500 To 1,000, Deduct</i>	-3.93	
			<i>For >1,000, Deduct</i>	-5.48	
			<i>For 316 Stainless Steel, Add</i>	92.16	
			<i>For Aluminum, Add</i>	5.18	
			<i>For Galvanized Steel, Add</i>	17.86	
			<i>For 304 Stainless Steel, Add</i>	82.08	
			<i>For High Strength Steel (HSS), Add</i>	9.08	
05 12 23 00-0488	LF		8" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	49.73	13.64
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-2.61	
			<i>For >500 To 1,000, Deduct</i>	-4.31	
			<i>For >1,000, Deduct</i>	-6.00	
			<i>For 316 Stainless Steel, Add</i>	100.93	
			<i>For Aluminum, Add</i>	5.68	
			<i>For Galvanized Steel, Add</i>	19.55	
			<i>For 304 Stainless Steel, Add</i>	89.89	
			<i>For High Strength Steel (HSS), Add</i>	9.95	
05 12 23 00-0489	LF		8" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	58.38	16.02
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-3.06	
			<i>For >500 To 1,000, Deduct</i>	-5.06	
			<i>For >1,000, Deduct</i>	-7.05	
			<i>For 316 Stainless Steel, Add</i>	118.46	
			<i>For Aluminum, Add</i>	6.66	
			<i>For Galvanized Steel, Add</i>	22.95	
			<i>For 304 Stainless Steel, Add</i>	105.51	
			<i>For High Strength Steel (HSS), Add</i>	11.68	
05 12 23 00-0490	LF		8" x 8" x 1/2" Thick, Plain Steel Angle Iron.....	66.99	18.39
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-3.51	
			<i>For >500 To 1,000, Deduct</i>	-5.80	
			<i>For >1,000, Deduct</i>	-8.09	
			<i>For 316 Stainless Steel, Add</i>	135.94	
			<i>For Aluminum, Add</i>	7.65	
			<i>For Galvanized Steel, Add</i>	26.34	
			<i>For 304 Stainless Steel, Add</i>	121.07	
			<i>For High Strength Steel (HSS), Add</i>	13.40	
05 12 23 00-0491			5/8" Thick (05 12 23 00-0409)		
05 12 23 00-0492	LF		4" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	38.89	10.22
			<i>For >100 To 250, Deduct</i>	-1.02	
			<i>For >250 To 500, Deduct</i>	-1.99	
			<i>For >500 To 1,000, Deduct</i>	-3.31	
			<i>For >1,000, Deduct</i>	-4.62	
			<i>For 316 Stainless Steel, Add</i>	80.86	
			<i>For Aluminum, Add</i>	4.55	
			<i>For Galvanized Steel, Add</i>	15.67	
			<i>For High Strength Steel (HSS), Add</i>	7.78	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0493 LF 5" x 3-1/2" x 5/8" Thick, Plain Steel Angle Iron	41.63	10.93
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-2.13	
For >500 To 1,000, Deduct	-3.54	
For >1,000, Deduct	-4.94	
For 316 Stainless Steel, Add	86.56	
For Aluminum, Add	4.87	
For Galvanized Steel, Add	16.77	
For High Strength Steel (HSS), Add	8.33	
05 12 23 00-0494 LF 5" x 5" x 5/8" Thick, Plain Steel Angle Iron	49.53	13.02
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-2.54	
For >500 To 1,000, Deduct	-4.21	
For >1,000, Deduct	-5.88	
For 316 Stainless Steel, Add	102.98	
For Aluminum, Add	5.79	
For Galvanized Steel, Add	19.95	
For High Strength Steel (HSS), Add	9.91	
05 12 23 00-0495 LF 6" x 4" x 5/8" Thick, Plain Steel Angle Iron	49.53	13.02
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-2.54	
For >500 To 1,000, Deduct	-4.21	
For >1,000, Deduct	-5.88	
For 316 Stainless Steel, Add	102.98	
For Aluminum, Add	5.79	
For Galvanized Steel, Add	19.95	
For High Strength Steel (HSS), Add	9.91	
05 12 23 00-0496 LF 6" x 6" x 5/8" Thick, Plain Steel Angle Iron	59.95	15.75
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-3.07	
For >500 To 1,000, Deduct	-5.10	
For >1,000, Deduct	-7.12	
For 316 Stainless Steel, Add	124.64	
For Aluminum, Add	7.01	
For Galvanized Steel, Add	24.15	
For High Strength Steel (HSS), Add	11.99	
05 12 23 00-0497 LF 7" x 4" x 5/8" Thick, Plain Steel Angle Iron	54.74	14.38
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-2.81	
For >500 To 1,000, Deduct	-4.65	
For >1,000, Deduct	-6.50	
For 316 Stainless Steel, Add	113.82	
For Aluminum, Add	6.40	
For Galvanized Steel, Add	22.05	
For High Strength Steel (HSS), Add	10.95	
05 12 23 00-0498 LF 8" x 6" x 5/8" Thick, Plain Steel Angle Iron	70.59	18.55
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-3.62	
For >500 To 1,000, Deduct	-6.00	
For >1,000, Deduct	-8.38	
For 316 Stainless Steel, Add	146.78	
For Aluminum, Add	8.26	
For Galvanized Steel, Add	28.44	
For High Strength Steel (HSS), Add	14.12	
05 12 23 00-0499 LF 8" x 8" x 5/8" Thick, Plain Steel Angle Iron	81.00	21.28
For >100 To 250, Deduct	-2.13	
For >250 To 500, Deduct	-4.15	
For >500 To 1,000, Deduct	-6.89	
For >1,000, Deduct	-9.62	
For 316 Stainless Steel, Add	168.42	
For Aluminum, Add	9.47	
For Galvanized Steel, Add	32.63	
For High Strength Steel (HSS), Add	16.20	
05 12 23 00-0500 3/4" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0501 LF 4" x 4" x 3/4" Thick, Plain Steel Angle Iron	44.84	11.29
For >100 To 250, Deduct	-1.13	
For >250 To 500, Deduct	-2.25	
For >500 To 1,000, Deduct	-3.75	
For >1,000, Deduct	-5.24	
For 316 Stainless Steel, Add	95.33	
For Aluminum, Add	5.36	
For Galvanized Steel, Add	18.47	
For High Strength Steel (HSS), Add	8.97	
05 12 23 00-0502 LF 5" x 3-1/2" x 3/4" Thick, Plain Steel Angle Iron	47.97	12.08
For >100 To 250, Deduct	-1.21	
For >250 To 500, Deduct	-2.41	
For >500 To 1,000, Deduct	-4.01	
For >1,000, Deduct	-5.61	
For 316 Stainless Steel, Add	101.95	
For Aluminum, Add	5.73	
For Galvanized Steel, Add	19.75	
For High Strength Steel (HSS), Add	9.59	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0503	LF		5" x 5" x 3/4" Thick, Plain Steel Angle Iron.....	57.18	14.41
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500 To 1,000, Deduct</i>	-4.78	
			<i>For >1,000, Deduct</i>	-6.69	
			<i>For 316 Stainless Steel, Add</i>	121.57	
			<i>For Aluminum, Add</i>	6.84	
			<i>For Galvanized Steel, Add</i>	23.55	
			<i>For High Strength Steel (HSS), Add</i>	11.44	
05 12 23 00-0504	LF		6" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	57.18	14.41
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500 To 1,000, Deduct</i>	-4.78	
			<i>For >1,000, Deduct</i>	-6.69	
			<i>For 316 Stainless Steel, Add</i>	121.57	
			<i>For Aluminum, Add</i>	6.84	
			<i>For Galvanized Steel, Add</i>	23.55	
			<i>For High Strength Steel (HSS), Add</i>	11.44	
05 12 23 00-0505	LF		6" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	69.54	17.50
			<i>For >100 To 250, Deduct</i>	-1.75	
			<i>For >250 To 500, Deduct</i>	-3.49	
			<i>For >500 To 1,000, Deduct</i>	-5.81	
			<i>For >1,000, Deduct</i>	-8.13	
			<i>For 316 Stainless Steel, Add</i>	147.81	
			<i>For Aluminum, Add</i>	8.31	
			<i>For Galvanized Steel, Add</i>	28.64	
			<i>For High Strength Steel (HSS), Add</i>	13.91	
05 12 23 00-0506	LF		7" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	63.47	15.99
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-3.19	
			<i>For >500 To 1,000, Deduct</i>	-5.30	
			<i>For >1,000, Deduct</i>	-7.42	
			<i>For 316 Stainless Steel, Add</i>	134.91	
			<i>For Aluminum, Add</i>	7.59	
			<i>For Galvanized Steel, Add</i>	26.14	
			<i>For High Strength Steel (HSS), Add</i>	12.69	
05 12 23 00-0507	LF		8" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	69.54	17.50
			<i>For >100 To 250, Deduct</i>	-1.75	
			<i>For >250 To 500, Deduct</i>	-3.49	
			<i>For >500 To 1,000, Deduct</i>	-5.81	
			<i>For >1,000, Deduct</i>	-8.13	
			<i>For 316 Stainless Steel, Add</i>	147.81	
			<i>For Aluminum, Add</i>	8.31	
			<i>For Galvanized Steel, Add</i>	28.64	
			<i>For High Strength Steel (HSS), Add</i>	13.91	
05 12 23 00-0508	LF		8" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	81.90	20.61
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-4.11	
			<i>For >500 To 1,000, Deduct</i>	-6.84	
			<i>For >1,000, Deduct</i>	-9.58	
			<i>For 316 Stainless Steel, Add</i>	174.11	
			<i>For Aluminum, Add</i>	9.79	
			<i>For Galvanized Steel, Add</i>	33.73	
			<i>For High Strength Steel (HSS), Add</i>	16.38	
05 12 23 00-0509	LF		8" x 8" x 3/4" Thick, Plain Steel Angle Iron.....	94.25	23.73
			<i>For >100 To 250, Deduct</i>	-2.37	
			<i>For >250 To 500, Deduct</i>	-4.73	
			<i>For >500 To 1,000, Deduct</i>	-7.88	
			<i>For >1,000, Deduct</i>	-11.02	
			<i>For 316 Stainless Steel, Add</i>	200.35	
			<i>For Aluminum, Add</i>	11.27	
			<i>For Galvanized Steel, Add</i>	38.82	
			<i>For High Strength Steel (HSS), Add</i>	18.85	
05 12 23 00-0510			7/8" Thick (05 12 23 00-0409)		
05 12 23 00-0511	LF		5" x 5" x 7/8" Thick, Plain Steel Angle Iron.....	64.42	15.48
			<i>For >100 To 250, Deduct</i>	-1.55	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500 To 1,000, Deduct</i>	-5.29	
			<i>For >1,000, Deduct</i>	-7.41	
			<i>For 316 Stainless Steel, Add</i>	140.06	
			<i>For Aluminum, Add</i>	7.88	
			<i>For Galvanized Steel, Add</i>	27.14	
			<i>For High Strength Steel (HSS), Add</i>	12.88	
05 12 23 00-0512	LF		6" x 4" x 7/8" Thick, Plain Steel Angle Iron.....	64.42	15.48
			<i>For >100 To 250, Deduct</i>	-1.55	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500 To 1,000, Deduct</i>	-5.29	
			<i>For >1,000, Deduct</i>	-7.41	
			<i>For 316 Stainless Steel, Add</i>	140.06	
			<i>For Aluminum, Add</i>	7.88	
			<i>For Galvanized Steel, Add</i>	27.14	
			<i>For High Strength Steel (HSS), Add</i>	12.88	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0513 LF 6" x 6" x 7/8" Thick, Plain Steel Angle Iron	78.41	18.85
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-3.85	
For >500 To 1,000, Deduct	-6.43	
For >1,000, Deduct	-9.02	
For 316 Stainless Steel, Add	170.50	
For Aluminum, Add	9.59	
For Galvanized Steel, Add	33.03	
For High Strength Steel (HSS), Add	15.68	
05 12 23 00-0514 LF 8" x 6" x 7/8" Thick, Plain Steel Angle Iron	92.61	22.26
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-4.54	
For >500 To 1,000, Deduct	-7.60	
For >1,000, Deduct	-10.66	
For 316 Stainless Steel, Add	201.38	
For Aluminum, Add	11.33	
For Galvanized Steel, Add	39.02	
For High Strength Steel (HSS), Add	18.52	
05 12 23 00-0515 LF 8" x 8" x 7/8" Thick, Plain Steel Angle Iron	106.58	25.63
For >100 To 250, Deduct	-2.56	
For >250 To 500, Deduct	-5.23	
For >500 To 1,000, Deduct	-8.75	
For >1,000, Deduct	-12.26	
For 316 Stainless Steel, Add	231.74	
For Aluminum, Add	13.04	
For Galvanized Steel, Add	44.90	
For High Strength Steel (HSS), Add	21.32	
05 12 23 00-0516 Bar Channel <small>(05 12 23 00-0408)</small>		
05 12 23 00-0517 LF 1" x 1/2" x 1/8" Thick Bar Channel.....	5.17	
For 316 Stainless Steel, Add	5.60	
For Aluminum, Add	0.32	
For Galvanized Steel, Add	1.09	
For 304 Stainless Steel, Add	4.99	
For High Strength Steel (HSS), Add	1.03	
05 12 23 00-0518 LF 1-1/4" x 1/2" x 1/8" Thick Bar Channel.....	5.82	
For 316 Stainless Steel, Add	6.72	
For Aluminum, Add	0.38	
For Galvanized Steel, Add	1.30	
For 304 Stainless Steel, Add	5.99	
For High Strength Steel (HSS), Add	1.16	
05 12 23 00-0519 LF 1-1/2" x 1/2" x 1/8" Thick Bar Channel.....	6.34	
For 316 Stainless Steel, Add	7.42	
For Aluminum, Add	0.42	
For Galvanized Steel, Add	1.44	
For 304 Stainless Steel, Add	6.61	
For High Strength Steel (HSS), Add	1.27	
05 12 23 00-0520 LF 1-1/2" x 3/4" x 1/8" Thick Bar Channel.....	7.24	
For 316 Stainless Steel, Add	7.74	
For Aluminum, Add	0.44	
For Galvanized Steel, Add	1.50	
For 304 Stainless Steel, Add	6.90	
For High Strength Steel (HSS), Add	1.45	
05 12 23 00-0521 LF 2" x 1/2" x 1/8" Thick Bar Channel.....	7.78	
For 316 Stainless Steel, Add	9.47	
For Aluminum, Add	0.53	
For Galvanized Steel, Add	1.84	
For 304 Stainless Steel, Add	8.44	
05 12 23 00-0522 LF 2" x 1" x 1/8" Thick Bar Channel.....	10.18	
For 316 Stainless Steel, Add	10.59	
For Aluminum, Add	0.60	
For Galvanized Steel, Add	2.05	
For 304 Stainless Steel, Add	9.43	
05 12 23 00-0523 Channels - C <small>(05 12 23 00-0408)</small>		
05 12 23 00-0524 LF C2 x 1.78 - 2" Wide Channel	8.47	4.24
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.64	
For >500 To 1,000, Deduct	-0.99	
For >1,000, Deduct	-1.34	
For 316 Stainless Steel, Add	8.99	
For Aluminum, Add	0.51	
For Galvanized Steel, Add	1.74	
For 304 Stainless Steel, Add	8.01	
05 12 23 00-0525 LF C3 x 4.1 - 3" Wide Channel	14.73	6.10
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-0.98	
For >500 To 1,000, Deduct	-1.55	
For >1,000, Deduct	-2.12	
For 316 Stainless Steel, Add	21.12	
For Aluminum, Add	1.19	
For Galvanized Steel, Add	4.09	
For 304 Stainless Steel, Add	18.81	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0526	LF		C3 x 5 - 3" Wide Channel.....	17.97	7.44
			<i>For >100 To 250, Deduct</i>	-0.74	
			<i>For >250 To 500, Deduct</i>	-1.19	
			<i>For >500 To 1,000, Deduct</i>	-1.89	
			<i>For >1,000, Deduct</i>	-2.59	
			<i>For 316 Stainless Steel, Add</i>	25.76	
			<i>For Aluminum, Add</i>	1.45	
			<i>For Galvanized Steel, Add</i>	4.99	
			<i>For 304 Stainless Steel, Add</i>	22.94	
05 12 23 00-0527	LF		C3 x 6 - 3" Wide Channel.....	21.57	8.93
			<i>For >100 To 250, Deduct</i>	-0.89	
			<i>For >250 To 500, Deduct</i>	-1.43	
			<i>For >500 To 1,000, Deduct</i>	-2.27	
			<i>For >1,000, Deduct</i>	-3.11	
			<i>For 316 Stainless Steel, Add</i>	30.91	
			<i>For Aluminum, Add</i>	1.74	
			<i>For Galvanized Steel, Add</i>	5.99	
			<i>For 304 Stainless Steel, Add</i>	27.53	
05 12 23 00-0528	LF		C4 x 5.4 - 4" Wide Channel.....	18.45	7.32
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.19	
			<i>For >500 To 1,000, Deduct</i>	-1.90	
			<i>For >1,000, Deduct</i>	-2.60	
			<i>For 316 Stainless Steel, Add</i>	27.81	
			<i>For Aluminum, Add</i>	1.56	
			<i>For Galvanized Steel, Add</i>	5.39	
			<i>For 304 Stainless Steel, Add</i>	24.77	
05 12 23 00-0529	LF		C4 x 7.25 - 4" Wide Channel.....	24.77	9.82
			<i>For >100 To 250, Deduct</i>	-0.98	
			<i>For >250 To 500, Deduct</i>	-1.60	
			<i>For >500 To 1,000, Deduct</i>	-2.55	
			<i>For >1,000, Deduct</i>	-3.50	
			<i>For 316 Stainless Steel, Add</i>	37.34	
			<i>For Aluminum, Add</i>	2.10	
			<i>For Galvanized Steel, Add</i>	7.24	
			<i>For 304 Stainless Steel, Add</i>	33.26	
05 12 23 00-0530	LF		C5 x 6.7 - 5" Wide Channel.....	22.16	8.53
			<i>For >100 To 250, Deduct</i>	-0.85	
			<i>For >250 To 500, Deduct</i>	-1.41	
			<i>For >500 To 1,000, Deduct</i>	-2.25	
			<i>For >1,000, Deduct</i>	-3.08	
			<i>For 316 Stainless Steel, Add</i>	34.50	
			<i>For Aluminum, Add</i>	1.94	
			<i>For Galvanized Steel, Add</i>	6.68	
			<i>For 304 Stainless Steel, Add</i>	30.72	
05 12 23 00-0531	LF		C5 x 9 - 5" Wide Channel.....	29.77	11.47
			<i>For >100 To 250, Deduct</i>	-1.15	
			<i>For >250 To 500, Deduct</i>	-1.89	
			<i>For >500 To 1,000, Deduct</i>	-3.02	
			<i>For >1,000, Deduct</i>	-4.14	
			<i>For 316 Stainless Steel, Add</i>	46.34	
			<i>For Aluminum, Add</i>	2.61	
			<i>For Galvanized Steel, Add</i>	8.98	
			<i>For 304 Stainless Steel, Add</i>	41.27	
05 12 23 00-0532	LF		C6 x 8.2 - 6" Wide Channel.....	26.86	10.25
			<i>For >100 To 250, Deduct</i>	-1.02	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500 To 1,000, Deduct</i>	-2.71	
			<i>For >1,000, Deduct</i>	-3.72	
			<i>For 316 Stainless Steel, Add</i>	42.24	
			<i>For Aluminum, Add</i>	2.38	
			<i>For Galvanized Steel, Add</i>	8.18	
			<i>For 304 Stainless Steel, Add</i>	37.62	
05 12 23 00-0533	LF		C6 x 10.5 - 6" Wide Channel.....	34.39	13.13
			<i>For >100 To 250, Deduct</i>	-1.31	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500 To 1,000, Deduct</i>	-3.47	
			<i>For >1,000, Deduct</i>	-4.77	
			<i>For 316 Stainless Steel, Add</i>	54.08	
			<i>For Aluminum, Add</i>	3.04	
			<i>For Galvanized Steel, Add</i>	10.48	
			<i>For 304 Stainless Steel, Add</i>	48.17	
05 12 23 00-0534	LF		C6 x 13 - 6" Wide Channel.....	42.59	16.25
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500 To 1,000, Deduct</i>	-4.30	
			<i>For >1,000, Deduct</i>	-5.90	
			<i>For 316 Stainless Steel, Add</i>	66.94	
			<i>For Aluminum, Add</i>	3.77	
			<i>For Galvanized Steel, Add</i>	12.97	
			<i>For 304 Stainless Steel, Add</i>	59.62	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0535 LF C7 x 9.8 - 7" Wide Channel	32.04	12.20
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.02	
For >500 To 1,000, Deduct	-3.23	
For >1,000, Deduct	-4.44	
For 316 Stainless Steel, Add	50.46	
For Aluminum, Add	2.84	
For Galvanized Steel, Add	9.78	
For 304 Stainless Steel, Add	44.94	
05 12 23 00-0536 LF C7 x 12.25 - 7" Wide Channel	40.04	15.25
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-2.53	
For >500 To 1,000, Deduct	-4.04	
For >1,000, Deduct	-5.54	
For 316 Stainless Steel, Add	63.07	
For Aluminum, Add	3.55	
For Galvanized Steel, Add	12.22	
For 304 Stainless Steel, Add	56.17	
05 12 23 00-0537 LF C7 x 14.75 - 7" Wide Channel	48.23	18.36
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-3.04	
For >500 To 1,000, Deduct	-4.86	
For >1,000, Deduct	-6.68	
For 316 Stainless Steel, Add	75.97	
For Aluminum, Add	4.27	
For Galvanized Steel, Add	14.72	
For 304 Stainless Steel, Add	67.66	
05 12 23 00-0538 LF C8 x 11.5 - 8" Wide Channel	36.40	13.42
For >100 To 250, Deduct	-1.34	
For >250 To 500, Deduct	-2.25	
For >500 To 1,000, Deduct	-3.61	
For >1,000, Deduct	-4.97	
For 316 Stainless Steel, Add	59.23	
For Aluminum, Add	3.33	
For Galvanized Steel, Add	11.48	
For 304 Stainless Steel, Add	52.75	
05 12 23 00-0539 LF C8 x 13.75 - 8" Wide Channel	43.53	16.05
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.69	
For >500 To 1,000, Deduct	-4.32	
For >1,000, Deduct	-5.94	
For 316 Stainless Steel, Add	70.82	
For Aluminum, Add	3.98	
For Galvanized Steel, Add	13.72	
For 304 Stainless Steel, Add	63.07	
05 12 23 00-0540 LF C8 x 18.75 - 8" Wide Channel	59.35	21.88
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-3.67	
For >500 To 1,000, Deduct	-5.89	
For >1,000, Deduct	-8.10	
For 316 Stainless Steel, Add	96.54	
For Aluminum, Add	5.43	
For Galvanized Steel, Add	18.71	
For 304 Stainless Steel, Add	85.98	
05 12 23 00-0541 LF C9 x 13.4 - 9" Wide Channel	42.41	15.64
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-2.62	
For >500 To 1,000, Deduct	-4.21	
For >1,000, Deduct	-5.79	
For 316 Stainless Steel, Add	68.99	
For Aluminum, Add	3.88	
For Galvanized Steel, Add	13.37	
For 304 Stainless Steel, Add	61.45	
05 12 23 00-0542 LF C9 x 15 - 9" Wide Channel	47.48	17.50
For >100 To 250, Deduct	-1.75	
For >250 To 500, Deduct	-2.94	
For >500 To 1,000, Deduct	-4.71	
For >1,000, Deduct	-6.48	
For 316 Stainless Steel, Add	77.25	
For Aluminum, Add	4.35	
For Galvanized Steel, Add	14.97	
For 304 Stainless Steel, Add	68.80	
05 12 23 00-0543 LF C9 x 20 - 9" Wide Channel	63.30	23.34
For >100 To 250, Deduct	-2.33	
For >250 To 500, Deduct	-3.92	
For >500 To 1,000, Deduct	-6.28	
For >1,000, Deduct	-8.64	
For 316 Stainless Steel, Add	102.98	
For Aluminum, Add	5.79	
For Galvanized Steel, Add	19.95	
For 304 Stainless Steel, Add	91.71	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0544	LF		C10 x 15.3 - 10" Wide Channel.....	48.43	17.85
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-3.00	
			<i>For >500 To 1,000, Deduct</i>	-4.80	
			<i>For >1,000, Deduct</i>	-6.61	
			<i>For 316 Stainless Steel, Add</i>	78.78	
			<i>For Aluminum, Add</i>	4.43	
			<i>For Galvanized Steel, Add</i>	15.26	
			<i>For 304 Stainless Steel, Add</i>	70.17	
05 12 23 00-0545	LF		C10 x 20 - 10" Wide Channel.....	63.30	23.34
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-3.92	
			<i>For >500 To 1,000, Deduct</i>	-6.28	
			<i>For >1,000, Deduct</i>	-8.64	
			<i>For 316 Stainless Steel, Add</i>	102.98	
			<i>For Aluminum, Add</i>	5.79	
			<i>For Galvanized Steel, Add</i>	19.95	
			<i>For 304 Stainless Steel, Add</i>	91.71	
05 12 23 00-0546	LF		C10 x 25 - 10" Wide Channel.....	79.13	29.18
			<i>For >100 To 250, Deduct</i>	-2.92	
			<i>For >250 To 500, Deduct</i>	-4.90	
			<i>For >500 To 1,000, Deduct</i>	-7.85	
			<i>For >1,000, Deduct</i>	-10.80	
			<i>For 316 Stainless Steel, Add</i>	128.74	
			<i>For Aluminum, Add</i>	7.24	
			<i>For Galvanized Steel, Add</i>	24.94	
			<i>For 304 Stainless Steel, Add</i>	114.66	
05 12 23 00-0547	LF		C10 x 30 - 10" Wide Channel.....	94.96	35.01
			<i>For >100 To 250, Deduct</i>	-3.50	
			<i>For >250 To 500, Deduct</i>	-5.88	
			<i>For >500 To 1,000, Deduct</i>	-9.42	
			<i>For >1,000, Deduct</i>	-12.96	
			<i>For 316 Stainless Steel, Add</i>	154.50	
			<i>For Aluminum, Add</i>	8.69	
			<i>For Galvanized Steel, Add</i>	29.93	
			<i>For 304 Stainless Steel, Add</i>	137.60	
05 12 23 00-0548	LF		C12 x 20.7 - 12" Wide Channel.....	65.52	24.16
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-4.05	
			<i>For >500 To 1,000, Deduct</i>	-6.50	
			<i>For >1,000, Deduct</i>	-8.94	
			<i>For 316 Stainless Steel, Add</i>	106.59	
			<i>For Aluminum, Add</i>	6.00	
			<i>For Galvanized Steel, Add</i>	20.65	
			<i>For 304 Stainless Steel, Add</i>	94.93	
05 12 23 00-0549	LF		C12 x 25 - 12" Wide Channel.....	79.13	29.18
			<i>For >100 To 250, Deduct</i>	-2.92	
			<i>For >250 To 500, Deduct</i>	-4.90	
			<i>For >500 To 1,000, Deduct</i>	-7.85	
			<i>For >1,000, Deduct</i>	-10.80	
			<i>For 316 Stainless Steel, Add</i>	128.74	
			<i>For Aluminum, Add</i>	7.24	
			<i>For Galvanized Steel, Add</i>	24.94	
			<i>For 304 Stainless Steel, Add</i>	114.66	
05 12 23 00-0550	LF		C12 x 30 - 12" Wide Channel.....	94.96	35.01
			<i>For >100 To 250, Deduct</i>	-3.50	
			<i>For >250 To 500, Deduct</i>	-5.88	
			<i>For >500 To 1,000, Deduct</i>	-9.42	
			<i>For >1,000, Deduct</i>	-12.96	
			<i>For 316 Stainless Steel, Add</i>	154.50	
			<i>For Aluminum, Add</i>	8.69	
			<i>For Galvanized Steel, Add</i>	29.93	
			<i>For 304 Stainless Steel, Add</i>	137.60	
05 12 23 00-0551	LF		C15 x 33.9 - 15" Wide Channel.....	107.30	39.56
			<i>For >100 To 250, Deduct</i>	-3.96	
			<i>For >250 To 500, Deduct</i>	-6.64	
			<i>For >500 To 1,000, Deduct</i>	-10.64	
			<i>For >1,000, Deduct</i>	-14.64	
			<i>For 316 Stainless Steel, Add</i>	174.56	
			<i>For Aluminum, Add</i>	9.82	
			<i>For Galvanized Steel, Add</i>	33.82	
			<i>For 304 Stainless Steel, Add</i>	155.47	
05 12 23 00-0552	LF		C15 x 40 - 15" Wide Channel.....	126.61	46.68
			<i>For >100 To 250, Deduct</i>	-4.67	
			<i>For >250 To 500, Deduct</i>	-7.83	
			<i>For >500 To 1,000, Deduct</i>	-12.55	
			<i>For >1,000, Deduct</i>	-17.28	
			<i>For 316 Stainless Steel, Add</i>	205.98	
			<i>For Aluminum, Add</i>	11.59	
			<i>For Galvanized Steel, Add</i>	39.91	
			<i>For 304 Stainless Steel, Add</i>	183.45	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0553 LF C15 x 50 - 15" Wide Channel	158.27	58.34
For >100 To 250, Deduct	-5.84	
For >250 To 500, Deduct	-9.79	
For >500 To 1,000, Deduct	-15.69	
For >1,000, Deduct	-21.60	
For 316 Stainless Steel, Add	257.47	
For Aluminum, Add	14.48	
For Galvanized Steel, Add	49.89	
For 304 Stainless Steel, Add	229.31	
05 12 23 00-0554 Miscellaneous Channels - MC <small>(05 12 23 00-0408)</small>		
05 12 23 00-0555 LF MC6 x 12 - 6" Wide Channel	39.31	15.00
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-2.48	
For >500 To 1,000, Deduct	-3.97	
For >1,000, Deduct	-5.45	
For 316 Stainless Steel, Add	61.79	
For Aluminum, Add	3.48	
For Galvanized Steel, Add	11.97	
For 304 Stainless Steel, Add	55.03	
05 12 23 00-0556 LF MC6 x 15.1 - 6" Wide Channel	49.46	18.87
For >100 To 250, Deduct	-1.89	
For >250 To 500, Deduct	-3.12	
For >500 To 1,000, Deduct	-4.99	
For >1,000, Deduct	-6.85	
For 316 Stainless Steel, Add	77.76	
For Aluminum, Add	4.37	
For Galvanized Steel, Add	15.07	
For 304 Stainless Steel, Add	69.26	
05 12 23 00-0557 LF MC6 x 15.3 - 6" Wide Channel	50.12	19.12
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-3.17	
For >500 To 1,000, Deduct	-5.06	
For >1,000, Deduct	-6.95	
For 316 Stainless Steel, Add	78.78	
For Aluminum, Add	4.43	
For Galvanized Steel, Add	15.26	
For 304 Stainless Steel, Add	70.17	
05 12 23 00-0558 LF MC6 x 16.3 - 6" Wide Channel	53.40	20.37
For >100 To 250, Deduct	-2.04	
For >250 To 500, Deduct	-3.37	
For >500 To 1,000, Deduct	-5.39	
For >1,000, Deduct	-7.40	
For 316 Stainless Steel, Add	83.94	
For Aluminum, Add	4.72	
For Galvanized Steel, Add	16.26	
For 304 Stainless Steel, Add	74.76	
05 12 23 00-0559 LF MC6 x 18 - 6" Wide Channel	58.97	22.50
For >100 To 250, Deduct	-2.25	
For >250 To 500, Deduct	-3.72	
For >500 To 1,000, Deduct	-5.95	
For >1,000, Deduct	-8.17	
For 316 Stainless Steel, Add	92.70	
For Aluminum, Add	5.21	
For Galvanized Steel, Add	17.96	
For 304 Stainless Steel, Add	82.56	
05 12 23 00-0560 LF MC7 x 17.6 - 7" Wide Channel	57.54	21.92
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-3.63	
For >500 To 1,000, Deduct	-5.80	
For >1,000, Deduct	-7.97	
For 316 Stainless Steel, Add	90.62	
For Aluminum, Add	5.10	
For Galvanized Steel, Add	17.56	
For 304 Stainless Steel, Add	80.71	
05 12 23 00-0561 LF MC7 x 19.1 - 7" Wide Channel	62.46	23.79
For >100 To 250, Deduct	-2.38	
For >250 To 500, Deduct	-3.94	
For >500 To 1,000, Deduct	-6.30	
For >1,000, Deduct	-8.65	
For 316 Stainless Steel, Add	98.37	
For Aluminum, Add	5.53	
For Galvanized Steel, Add	19.06	
For 304 Stainless Steel, Add	87.61	
05 12 23 00-0562 LF MC7 x 22.7 - 7" Wide Channel	74.22	28.26
For >100 To 250, Deduct	-2.83	
For >250 To 500, Deduct	-4.68	
For >500 To 1,000, Deduct	-7.48	
For >1,000, Deduct	-10.28	
For 316 Stainless Steel, Add	116.90	
For Aluminum, Add	6.58	
For Galvanized Steel, Add	22.65	
For 304 Stainless Steel, Add	104.11	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0563	LF		MC8 x 8.5 - 8" Wide Channel.....	26.91	9.92
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-1.67	
			<i>For >500 To 1,000, Deduct</i>	-2.67	
			<i>For >1,000, Deduct</i>	-3.67	
			<i>For 316 Stainless Steel, Add</i>	43.78	
			<i>For Aluminum, Add</i>	2.46	
			<i>For Galvanized Steel, Add</i>	8.48	
			<i>For 304 Stainless Steel, Add</i>	38.99	
05 12 23 00-0564	LF		MC8 x 18.7 - 8" Wide Channel.....	59.19	21.82
			<i>For >100 To 250, Deduct</i>	-2.18	
			<i>For >250 To 500, Deduct</i>	-3.66	
			<i>For >500 To 1,000, Deduct</i>	-5.87	
			<i>For >1,000, Deduct</i>	-8.08	
			<i>For 316 Stainless Steel, Add</i>	96.29	
			<i>For Aluminum, Add</i>	5.42	
			<i>For Galvanized Steel, Add</i>	18.66	
			<i>For 304 Stainless Steel, Add</i>	85.76	
05 12 23 00-0565	LF		MC8 x 20 - 8" Wide Channel.....	63.30	23.34
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-3.92	
			<i>For >500 To 1,000, Deduct</i>	-6.28	
			<i>For >1,000, Deduct</i>	-8.64	
			<i>For 316 Stainless Steel, Add</i>	102.98	
			<i>For Aluminum, Add</i>	5.79	
			<i>For Galvanized Steel, Add</i>	19.95	
			<i>For 304 Stainless Steel, Add</i>	91.71	
05 12 23 00-0566	LF		MC8 x 21.4 - 8" Wide Channel.....	67.75	24.98
			<i>For >100 To 250, Deduct</i>	-2.50	
			<i>For >250 To 500, Deduct</i>	-4.19	
			<i>For >500 To 1,000, Deduct</i>	-6.72	
			<i>For >1,000, Deduct</i>	-9.25	
			<i>For 316 Stainless Steel, Add</i>	110.21	
			<i>For Aluminum, Add</i>	6.20	
			<i>For Galvanized Steel, Add</i>	21.35	
			<i>For 304 Stainless Steel, Add</i>	98.15	
05 12 23 00-0567	LF		MC8 x 22.8 - 8" Wide Channel.....	72.16	26.62
			<i>For >100 To 250, Deduct</i>	-2.66	
			<i>For >250 To 500, Deduct</i>	-4.46	
			<i>For >500 To 1,000, Deduct</i>	-7.16	
			<i>For >1,000, Deduct</i>	-9.85	
			<i>For 316 Stainless Steel, Add</i>	117.41	
			<i>For Aluminum, Add</i>	6.60	
			<i>For Galvanized Steel, Add</i>	22.75	
			<i>For 304 Stainless Steel, Add</i>	104.57	
05 12 23 00-0568	LF		MC9 x 23.9 - 9" Wide Channel.....	75.65	27.90
			<i>For >100 To 250, Deduct</i>	-2.79	
			<i>For >250 To 500, Deduct</i>	-4.68	
			<i>For >500 To 1,000, Deduct</i>	-7.50	
			<i>For >1,000, Deduct</i>	-10.32	
			<i>For 316 Stainless Steel, Add</i>	123.07	
			<i>For Aluminum, Add</i>	6.92	
			<i>For Galvanized Steel, Add</i>	23.85	
			<i>For 304 Stainless Steel, Add</i>	109.61	
05 12 23 00-0569	LF		MC9 x 25.4 - 9" Wide Channel.....	80.39	29.64
			<i>For >100 To 250, Deduct</i>	-2.96	
			<i>For >250 To 500, Deduct</i>	-4.97	
			<i>For >500 To 1,000, Deduct</i>	-7.97	
			<i>For >1,000, Deduct</i>	-10.97	
			<i>For 316 Stainless Steel, Add</i>	130.78	
			<i>For Aluminum, Add</i>	7.36	
			<i>For Galvanized Steel, Add</i>	25.34	
			<i>For 304 Stainless Steel, Add</i>	116.48	
05 12 23 00-0570	LF		MC10 x 6.5 - 10" Wide Channel.....	20.58	7.58
			<i>For >100 To 250, Deduct</i>	-0.76	
			<i>For >250 To 500, Deduct</i>	-1.27	
			<i>For >500 To 1,000, Deduct</i>	-2.04	
			<i>For >1,000, Deduct</i>	-2.81	
			<i>For 316 Stainless Steel, Add</i>	33.47	
			<i>For Aluminum, Add</i>	1.88	
			<i>For Galvanized Steel, Add</i>	6.49	
			<i>For 304 Stainless Steel, Add</i>	29.81	
05 12 23 00-0571	LF		MC10 x 8.4 - 10" Wide Channel.....	26.59	9.80
			<i>For >100 To 250, Deduct</i>	-0.98	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500 To 1,000, Deduct</i>	-2.64	
			<i>For >1,000, Deduct</i>	-3.63	
			<i>For 316 Stainless Steel, Add</i>	43.26	
			<i>For Aluminum, Add</i>	2.43	
			<i>For Galvanized Steel, Add</i>	8.38	
			<i>For 304 Stainless Steel, Add</i>	38.53	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0572	LF		MC10 x 21.9 - 10" Wide Channel	69.31	25.56
			<i>For >100 To 250, Deduct</i>	-2.56	
			<i>For >250 To 500, Deduct</i>	-4.29	
			<i>For >500 To 1,000, Deduct</i>	-6.87	
			<i>For >1,000, Deduct</i>	-9.46	
			<i>For 316 Stainless Steel, Add</i>	112.77	
			<i>For Aluminum, Add</i>	6.34	
			<i>For Galvanized Steel, Add</i>	21.85	
			<i>For 304 Stainless Steel, Add</i>	100.43	
05 12 23 00-0573	LF		MC10 x 24.9 - 10" Wide Channel	78.82	29.07
			<i>For >100 To 250, Deduct</i>	-2.91	
			<i>For >250 To 500, Deduct</i>	-4.88	
			<i>For >500 To 1,000, Deduct</i>	-7.82	
			<i>For >1,000, Deduct</i>	-10.76	
			<i>For 316 Stainless Steel, Add</i>	128.22	
			<i>For Aluminum, Add</i>	7.21	
			<i>For Galvanized Steel, Add</i>	24.84	
			<i>For 304 Stainless Steel, Add</i>	114.20	
05 12 23 00-0574	LF		MC10 x 25.3 - 10" Wide Channel	80.08	29.53
			<i>For >100 To 250, Deduct</i>	-2.95	
			<i>For >250 To 500, Deduct</i>	-4.95	
			<i>For >500 To 1,000, Deduct</i>	-7.94	
			<i>For >1,000, Deduct</i>	-10.93	
			<i>For 316 Stainless Steel, Add</i>	130.27	
			<i>For Aluminum, Add</i>	7.33	
			<i>For Galvanized Steel, Add</i>	25.24	
			<i>For 304 Stainless Steel, Add</i>	116.02	
05 12 23 00-0575	LF		MC10 x 28.3 - 10" Wide Channel	89.59	33.02
			<i>For >100 To 250, Deduct</i>	-3.30	
			<i>For >250 To 500, Deduct</i>	-5.54	
			<i>For >500 To 1,000, Deduct</i>	-8.88	
			<i>For >1,000, Deduct</i>	-12.23	
			<i>For 316 Stainless Steel, Add</i>	145.73	
			<i>For Aluminum, Add</i>	8.20	
			<i>For Galvanized Steel, Add</i>	28.23	
			<i>For 304 Stainless Steel, Add</i>	129.79	
05 12 23 00-0576	LF		MC10 x 28.5 - 10" Wide Channel	90.21	33.27
			<i>For >100 To 250, Deduct</i>	-3.33	
			<i>For >250 To 500, Deduct</i>	-5.58	
			<i>For >500 To 1,000, Deduct</i>	-8.95	
			<i>For >1,000, Deduct</i>	-12.31	
			<i>For 316 Stainless Steel, Add</i>	146.75	
			<i>For Aluminum, Add</i>	8.25	
			<i>For Galvanized Steel, Add</i>	28.43	
			<i>For 304 Stainless Steel, Add</i>	130.70	
05 12 23 00-0577	LF		MC10 x 33.6 - 10" Wide Channel	106.36	39.22
			<i>For >100 To 250, Deduct</i>	-3.92	
			<i>For >250 To 500, Deduct</i>	-6.58	
			<i>For >500 To 1,000, Deduct</i>	-10.55	
			<i>For >1,000, Deduct</i>	-14.51	
			<i>For 316 Stainless Steel, Add</i>	173.02	
			<i>For Aluminum, Add</i>	9.73	
			<i>For Galvanized Steel, Add</i>	33.52	
			<i>For 304 Stainless Steel, Add</i>	154.10	
05 12 23 00-0578	LF		MC10 x 41.1 - 10" Wide Channel	130.09	47.97
			<i>For >100 To 250, Deduct</i>	-4.80	
			<i>For >250 To 500, Deduct</i>	-8.05	
			<i>For >500 To 1,000, Deduct</i>	-12.90	
			<i>For >1,000, Deduct</i>	-17.75	
			<i>For 316 Stainless Steel, Add</i>	211.65	
			<i>For Aluminum, Add</i>	11.91	
			<i>For Galvanized Steel, Add</i>	41.01	
			<i>For 304 Stainless Steel, Add</i>	188.50	
05 12 23 00-0579	LF		MC12 x 30.9 - 12" Wide Channel	97.81	36.06
			<i>For >100 To 250, Deduct</i>	-3.61	
			<i>For >250 To 500, Deduct</i>	-6.05	
			<i>For >500 To 1,000, Deduct</i>	-9.70	
			<i>For >1,000, Deduct</i>	-13.35	
			<i>For 316 Stainless Steel, Add</i>	159.10	
			<i>For Aluminum, Add</i>	8.95	
			<i>For Galvanized Steel, Add</i>	30.83	
			<i>For 304 Stainless Steel, Add</i>	141.70	
05 12 23 00-0580	LF		MC12 x 32.9 - 12" Wide Channel	104.14	38.39
			<i>For >100 To 250, Deduct</i>	-3.84	
			<i>For >250 To 500, Deduct</i>	-6.44	
			<i>For >500 To 1,000, Deduct</i>	-10.33	
			<i>For >1,000, Deduct</i>	-14.21	
			<i>For 316 Stainless Steel, Add</i>	169.41	
			<i>For Aluminum, Add</i>	9.53	
			<i>For Galvanized Steel, Add</i>	32.82	
			<i>For 304 Stainless Steel, Add</i>	150.88	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0581	LF		MC12 x 35 - 12" Wide Channel.....	110.78	40.84
			<i>For >100 To 250, Deduct</i>	-4.08	
			<i>For >250 To 500, Deduct</i>	-6.85	
			<i>For >500 To 1,000, Deduct</i>	-10.99	
			<i>For >1,000, Deduct</i>	-15.12	
			<i>For 316 Stainless Steel, Add</i>	180.22	
			<i>For Aluminum, Add</i>	10.14	
			<i>For Galvanized Steel, Add</i>	34.92	
			<i>For 304 Stainless Steel, Add</i>	160.51	
05 12 23 00-0582	LF		MC12 x 37 - 12" Wide Channel.....	117.12	43.19
			<i>For >100 To 250, Deduct</i>	-4.32	
			<i>For >250 To 500, Deduct</i>	-7.25	
			<i>For >500 To 1,000, Deduct</i>	-11.61	
			<i>For >1,000, Deduct</i>	-15.98	
			<i>For 316 Stainless Steel, Add</i>	190.53	
			<i>For Aluminum, Add</i>	10.72	
			<i>For Galvanized Steel, Add</i>	36.91	
			<i>For 304 Stainless Steel, Add</i>	169.69	
05 12 23 00-0583	LF		MC12 x 40 - 12" Wide Channel.....	126.61	46.68
			<i>For >100 To 250, Deduct</i>	-4.67	
			<i>For >250 To 500, Deduct</i>	-7.83	
			<i>For >500 To 1,000, Deduct</i>	-12.55	
			<i>For >1,000, Deduct</i>	-17.28	
			<i>For 316 Stainless Steel, Add</i>	205.98	
			<i>For Aluminum, Add</i>	11.59	
			<i>For Galvanized Steel, Add</i>	39.91	
			<i>For 304 Stainless Steel, Add</i>	183.45	
05 12 23 00-0584	LF		MC12 x 45 - 12" Wide Channel.....	142.44	52.52
			<i>For >100 To 250, Deduct</i>	-5.25	
			<i>For >250 To 500, Deduct</i>	-8.81	
			<i>For >500 To 1,000, Deduct</i>	-14.13	
			<i>For >1,000, Deduct</i>	-19.44	
			<i>For 316 Stainless Steel, Add</i>	231.71	
			<i>For Aluminum, Add</i>	13.03	
			<i>For Galvanized Steel, Add</i>	44.89	
			<i>For 304 Stainless Steel, Add</i>	206.37	
05 12 23 00-0585	LF		MC12 x 50 - 12" Wide Channel.....	158.27	58.36
			<i>For >100 To 250, Deduct</i>	-5.84	
			<i>For >250 To 500, Deduct</i>	-9.79	
			<i>For >500 To 1,000, Deduct</i>	-15.69	
			<i>For >1,000, Deduct</i>	-21.60	
			<i>For 316 Stainless Steel, Add</i>	257.47	
			<i>For Aluminum, Add</i>	14.48	
			<i>For Galvanized Steel, Add</i>	49.89	
			<i>For 304 Stainless Steel, Add</i>	229.31	
05 12 23 00-0586	LF		MC13 x 31.8 - 13" Wide Channel.....	100.66	37.12
			<i>For >100 To 250, Deduct</i>	-3.71	
			<i>For >250 To 500, Deduct</i>	-6.23	
			<i>For >500 To 1,000, Deduct</i>	-9.98	
			<i>For >1,000, Deduct</i>	-13.74	
			<i>For 316 Stainless Steel, Add</i>	163.74	
			<i>For Aluminum, Add</i>	9.21	
			<i>For Galvanized Steel, Add</i>	31.73	
			<i>For 304 Stainless Steel, Add</i>	145.83	
05 12 23 00-0587	LF		MC13 x 35 - 13" Wide Channel.....	110.78	40.84
			<i>For >100 To 250, Deduct</i>	-4.08	
			<i>For >250 To 500, Deduct</i>	-6.85	
			<i>For >500 To 1,000, Deduct</i>	-10.99	
			<i>For >1,000, Deduct</i>	-15.12	
			<i>For 316 Stainless Steel, Add</i>	180.22	
			<i>For Aluminum, Add</i>	10.14	
			<i>For Galvanized Steel, Add</i>	34.92	
			<i>For 304 Stainless Steel, Add</i>	160.51	
05 12 23 00-0588	LF		MC13 x 40 - 13" Wide Channel.....	126.61	46.68
			<i>For >100 To 250, Deduct</i>	-4.67	
			<i>For >250 To 500, Deduct</i>	-7.83	
			<i>For >500 To 1,000, Deduct</i>	-12.55	
			<i>For >1,000, Deduct</i>	-17.28	
			<i>For 316 Stainless Steel, Add</i>	205.98	
			<i>For Aluminum, Add</i>	11.59	
			<i>For Galvanized Steel, Add</i>	39.91	
			<i>For 304 Stainless Steel, Add</i>	183.45	
05 12 23 00-0589	LF		MC13 x 50 - 13" Wide Channel.....	158.27	58.36
			<i>For >100 To 250, Deduct</i>	-5.84	
			<i>For >250 To 500, Deduct</i>	-9.79	
			<i>For >500 To 1,000, Deduct</i>	-15.69	
			<i>For >1,000, Deduct</i>	-21.60	
			<i>For 316 Stainless Steel, Add</i>	257.47	
			<i>For Aluminum, Add</i>	14.48	
			<i>For Galvanized Steel, Add</i>	49.89	
			<i>For 304 Stainless Steel, Add</i>	229.31	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0590	LF		MC18 x 42.7 - 18" Wide Channel	135.16	49.83
			<i>For >100 To 250, Deduct</i>	-4.98	
			<i>For >250 To 500, Deduct</i>	-8.36	
			<i>For >500 To 1,000, Deduct</i>	-13.40	
			<i>For >1,000, Deduct</i>	-18.44	
			<i>For 316 Stainless Steel, Add</i>	219.87	
			<i>For Aluminum, Add</i>	12.37	
			<i>For Galvanized Steel, Add</i>	42.60	
			<i>For 304 Stainless Steel, Add</i>	195.82	
05 12 23 00-0591	LF		MC18 x 45.8 - 18" Wide Channel	144.97	53.46
			<i>For >100 To 250, Deduct</i>	-5.35	
			<i>For >250 To 500, Deduct</i>	-8.97	
			<i>For >500 To 1,000, Deduct</i>	-14.38	
			<i>For >1,000, Deduct</i>	-19.78	
			<i>For 316 Stainless Steel, Add</i>	235.84	
			<i>For Aluminum, Add</i>	13.27	
			<i>For Galvanized Steel, Add</i>	45.69	
			<i>For 304 Stainless Steel, Add</i>	210.05	
05 12 23 00-0592	LF		MC18 x 51.9 - 18" Wide Channel	164.29	60.57
			<i>For >100 To 250, Deduct</i>	-6.06	
			<i>For >250 To 500, Deduct</i>	-10.17	
			<i>For >500 To 1,000, Deduct</i>	-16.29	
			<i>For >1,000, Deduct</i>	-22.42	
			<i>For 316 Stainless Steel, Add</i>	267.26	
			<i>For Aluminum, Add</i>	15.03	
			<i>For Galvanized Steel, Add</i>	51.78	
			<i>For 304 Stainless Steel, Add</i>	238.03	
05 12 23 00-0593	LF		MC18 x 58 - 18" Wide Channel	183.58	67.68
			<i>For >100 To 250, Deduct</i>	-6.77	
			<i>For >250 To 500, Deduct</i>	-11.36	
			<i>For >500 To 1,000, Deduct</i>	-18.20	
			<i>For >1,000, Deduct</i>	-25.05	
			<i>For 316 Stainless Steel, Add</i>	298.66	
			<i>For Aluminum, Add</i>	16.80	
			<i>For Galvanized Steel, Add</i>	57.86	
			<i>For 304 Stainless Steel, Add</i>	265.99	
05 12 23 00-0594			Structural Bar Tees (05 12 23 00-0408)		
05 12 23 00-0595	LF		3/4" x 3/4" x 1/8" Structural Bar Tee	5.44	3.10
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.45	
			<i>For >500 To 1,000, Deduct</i>	-0.69	
			<i>For >1,000, Deduct</i>	-0.93	
			<i>For 316 Stainless Steel, Add</i>	4.16	
			<i>For Aluminum, Add</i>	0.23	
			<i>For Galvanized Steel, Add</i>	0.81	
			<i>For 304 Stainless Steel, Add</i>	3.71	
05 12 23 00-0596	LF		1" x 1" x 1/8" Structural Bar Tee	6.66	3.66
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.53	
			<i>For >500 To 1,000, Deduct</i>	-0.82	
			<i>For >1,000, Deduct</i>	-1.11	
			<i>For 316 Stainless Steel, Add</i>	5.70	
			<i>For Aluminum, Add</i>	0.32	
			<i>For Galvanized Steel, Add</i>	1.10	
			<i>For 304 Stainless Steel, Add</i>	5.07	
05 12 23 00-0597	LF		1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	10.74	4.23
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.69	
			<i>For >500 To 1,000, Deduct</i>	-1.10	
			<i>For >1,000, Deduct</i>	-1.51	
			<i>For 316 Stainless Steel, Add</i>	16.32	
			<i>For Aluminum, Add</i>	0.92	
			<i>For Galvanized Steel, Add</i>	3.16	
			<i>For 304 Stainless Steel, Add</i>	14.54	
05 12 23 00-0598	LF		2" x 2" x 1/4" Structural Bar Tee	14.97	5.53
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-0.93	
			<i>For >500 To 1,000, Deduct</i>	-1.49	
			<i>For >1,000, Deduct</i>	-2.04	
			<i>For 316 Stainless Steel, Add</i>	24.32	
			<i>For Aluminum, Add</i>	1.37	
			<i>For Galvanized Steel, Add</i>	4.71	
			<i>For 304 Stainless Steel, Add</i>	21.66	
05 12 23 00-0599	LF		2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	22.55	6.67
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.23	
			<i>For >500 To 1,000, Deduct</i>	-2.02	
			<i>For >1,000, Deduct</i>	-2.80	
			<i>For 316 Stainless Steel, Add</i>	43.68	
			<i>For Aluminum, Add</i>	2.46	
			<i>For Galvanized Steel, Add</i>	8.46	
			<i>For 304 Stainless Steel, Add</i>	38.90	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0600	LF		3" x 3" x 3/8" Structural Bar Tee	27.76	8.54
			<i>For >100 To 250, Deduct</i>	-0.85	
			<i>For >250 To 500, Deduct</i>	-1.55	
			<i>For >500 To 1,000, Deduct</i>	-2.53	
			<i>For >1,000, Deduct</i>	-3.50	
			<i>For 316 Stainless Steel, Add</i>	52.42	
			<i>For Aluminum, Add</i>	2.95	
			<i>For Galvanized Steel, Add</i>	10.16	
			<i>For 304 Stainless Steel, Add</i>	46.68	
05 12 23 00-0601			Structural Zees <small>(05 12 23 00-0408)</small>		
05 12 23 00-0602	LF		1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee.....	13.25	4.23
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500 To 1,000, Deduct</i>	-1.23	
			<i>For >1,000, Deduct</i>	-1.70	
			<i>For 316 Stainless Steel, Add</i>	24.35	
			<i>For Aluminum, Add</i>	1.37	
			<i>For Galvanized Steel, Add</i>	4.72	
			<i>For 304 Stainless Steel, Add</i>	21.69	
05 12 23 00-0603	LF		2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee.....	24.92	5.04
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-1.13	
			<i>For >500 To 1,000, Deduct</i>	-1.92	
			<i>For >1,000, Deduct</i>	-2.71	
			<i>For 316 Stainless Steel, Add</i>	58.24	
			<i>For Aluminum, Add</i>	3.28	
			<i>For Galvanized Steel, Add</i>	11.28	
			<i>For 304 Stainless Steel, Add</i>	51.87	
05 12 23 00-0604	LF		3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee.....	29.87	5.69
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-1.32	
			<i>For >500 To 1,000, Deduct</i>	-2.25	
			<i>For >1,000, Deduct</i>	-3.19	
			<i>For 316 Stainless Steel, Add</i>	71.30	
			<i>For Aluminum, Add</i>	4.01	
			<i>For Galvanized Steel, Add</i>	13.81	
			<i>For 304 Stainless Steel, Add</i>	63.50	
05 12 23 00-0605	LF		3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee.....	40.19	6.51
			<i>For >100 To 250, Deduct</i>	-0.65	
			<i>For >250 To 500, Deduct</i>	-1.66	
			<i>For >500 To 1,000, Deduct</i>	-2.88	
			<i>For >1,000, Deduct</i>	-4.10	
			<i>For 316 Stainless Steel, Add</i>	100.86	
			<i>For Aluminum, Add</i>	5.67	
			<i>For Galvanized Steel, Add</i>	19.54	
			<i>For 304 Stainless Steel, Add</i>	89.83	
05 12 23 00-0606	LF		3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee.....	52.10	7.08
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500 To 1,000, Deduct</i>	-3.55	
			<i>For >1,000, Deduct</i>	-5.09	
			<i>For 316 Stainless Steel, Add</i>	136.51	
			<i>For Aluminum, Add</i>	7.68	
			<i>For Galvanized Steel, Add</i>	26.45	
			<i>For 304 Stainless Steel, Add</i>	121.58	
05 12 23 00-0607			Junior I-Beams <small>(05 12 23 00-0408)</small>		
05 12 23 00-0608	LF		3" Junior I-Beam, 2.9 LB/LF.....	18.16	6.10
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.06	
			<i>For >500 To 1,000, Deduct</i>	-1.72	
			<i>For >1,000, Deduct</i>	-2.38	
			<i>For 316 Stainless Steel, Add</i>	32.10	
			<i>For Aluminum, Add</i>	1.81	
			<i>For Galvanized Steel, Add</i>	6.22	
			<i>For 304 Stainless Steel, Add</i>	28.59	
05 12 23 00-0609	LF		4" Junior I-Beam, 3.2 LB/LF.....	19.97	6.67
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.17	
			<i>For >500 To 1,000, Deduct</i>	-1.89	
			<i>For >1,000, Deduct</i>	-2.61	
			<i>For 316 Stainless Steel, Add</i>	35.42	
			<i>For Aluminum, Add</i>	1.99	
			<i>For Galvanized Steel, Add</i>	6.86	
			<i>For 304 Stainless Steel, Add</i>	31.55	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0610	LF		5" Junior I-Beam, 3.8 LB/LF.....	22.90	7.32
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.12	
			<i>For >1,000, Deduct</i>	-2.94	
			<i>For 316 Stainless Steel, Add</i>	42.05	
			<i>For Aluminum, Add</i>	2.37	
			<i>For Galvanized Steel, Add</i>	8.15	
			<i>For 304 Stainless Steel, Add</i>	37.45	
05 12 23 00-0611	LF		6" Junior I-Beam, 4.4 LB/LF.....	25.84	7.97
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.44	
			<i>For >500 To 1,000, Deduct</i>	-2.36	
			<i>For >1,000, Deduct</i>	-3.27	
			<i>For 316 Stainless Steel, Add</i>	48.67	
			<i>For Aluminum, Add</i>	2.74	
			<i>For Galvanized Steel, Add</i>	9.43	
			<i>For 304 Stainless Steel, Add</i>	43.35	
05 12 23 00-0612	LF		7" Junior I-Beam, 5.5 LB/LF.....	30.40	8.54
			<i>For >100 To 250, Deduct</i>	-0.85	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500 To 1,000, Deduct</i>	-2.66	
			<i>For >1,000, Deduct</i>	-3.70	
			<i>For 316 Stainless Steel, Add</i>	60.86	
			<i>For Aluminum, Add</i>	3.42	
			<i>For Galvanized Steel, Add</i>	11.79	
			<i>For 304 Stainless Steel, Add</i>	54.21	
05 12 23 00-0613	LF		8" Junior I-Beam, 6.5 LB/LF.....	34.62	9.11
			<i>For >100 To 250, Deduct</i>	-0.91	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500 To 1,000, Deduct</i>	-2.95	
			<i>For >1,000, Deduct</i>	-4.11	
			<i>For 316 Stainless Steel, Add</i>	71.94	
			<i>For Aluminum, Add</i>	4.05	
			<i>For Galvanized Steel, Add</i>	13.94	
			<i>For 304 Stainless Steel, Add</i>	64.07	
05 12 23 00-0614	LF		10" Junior I-Beam, 9 LB/LF.....	45.00	10.41
			<i>For >100 To 250, Deduct</i>	-1.04	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500 To 1,000, Deduct</i>	-3.64	
			<i>For >1,000, Deduct</i>	-5.11	
			<i>For 316 Stainless Steel, Add</i>	99.58	
			<i>For Aluminum, Add</i>	5.60	
			<i>For Galvanized Steel, Add</i>	19.29	
			<i>For 304 Stainless Steel, Add</i>	88.69	
05 12 23 00-0615	LF		12" Junior I-Beam, 11.8 LB/LF.....	57.28	12.36
			<i>For >100 To 250, Deduct</i>	-1.24	
			<i>For >250 To 500, Deduct</i>	-2.67	
			<i>For >500 To 1,000, Deduct</i>	-4.51	
			<i>For >1,000, Deduct</i>	-6.36	
			<i>For 316 Stainless Steel, Add</i>	130.56	
			<i>For Aluminum, Add</i>	7.34	
			<i>For Galvanized Steel, Add</i>	25.30	
			<i>For 304 Stainless Steel, Add</i>	116.28	
05 12 23 00-0616			Round Stock <small>(05 12 23 00-0408)</small>		
05 12 23 00-0617	LF		1/4" Carbon Steel Rounds, ASTM A108.....	2.44	
			<i>For 316 Stainless Steel, Add</i>	4.32	
			<i>For Aluminum, Add</i>	0.24	
			<i>For Galvanized Steel, Add</i>	0.84	
			<i>For 304 Stainless Steel, Add</i>	3.85	
05 12 23 00-0618	LF		3/8" Carbon Steel Rounds, ASTM A108.....	3.88	
			<i>For 316 Stainless Steel, Add</i>	8.48	
			<i>For Aluminum, Add</i>	0.48	
			<i>For Galvanized Steel, Add</i>	1.64	
			<i>For 304 Stainless Steel, Add</i>	7.55	
05 12 23 00-0619	LF		1/2" Carbon Steel Rounds, ASTM A108.....	5.40	
			<i>For 316 Stainless Steel, Add</i>	12.93	
			<i>For Aluminum, Add</i>	0.73	
			<i>For Galvanized Steel, Add</i>	2.50	
			<i>For 304 Stainless Steel, Add</i>	11.51	
05 12 23 00-0620	LF		5/8" Carbon Steel Rounds, ASTM A108.....	8.24	
			<i>For 316 Stainless Steel, Add</i>	21.54	
			<i>For Aluminum, Add</i>	1.21	
			<i>For Galvanized Steel, Add</i>	4.17	
			<i>For 304 Stainless Steel, Add</i>	19.18	
05 12 23 00-0621	LF		3/4" Carbon Steel Rounds, ASTM A108.....	9.80	
			<i>For 316 Stainless Steel, Add</i>	25.60	
			<i>For Aluminum, Add</i>	1.44	
			<i>For Galvanized Steel, Add</i>	4.96	
			<i>For 304 Stainless Steel, Add</i>	22.80	
05 12 23 00-0622	LF		7/8" Carbon Steel Rounds, ASTM A108.....	11.44	
			<i>For 316 Stainless Steel, Add</i>	29.92	
			<i>For Aluminum, Add</i>	1.68	
			<i>For Galvanized Steel, Add</i>	5.80	
			<i>For 304 Stainless Steel, Add</i>	26.65	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0623 LF 1" Carbon Steel Rounds, ASTM A108	16.71	
For 316 Stainless Steel, Add	45.57	
For Aluminum, Add	2.56	
For Galvanized Steel, Add	8.83	
For 304 Stainless Steel, Add	40.58	
05 12 23 00-0624 LF 1-1/8" Carbon Steel Rounds, ASTM A108	20.31	
For 316 Stainless Steel, Add	55.36	
For Aluminum, Add	3.11	
For Galvanized Steel, Add	10.73	
For 304 Stainless Steel, Add	49.31	
05 12 23 00-0625 LF 1-1/4" Carbon Steel Rounds, ASTM A108	24.23	
For 316 Stainless Steel, Add	65.15	
For Aluminum, Add	3.66	
For Galvanized Steel, Add	12.62	
For 304 Stainless Steel, Add	58.03	
05 12 23 00-0626 LF 1-3/8" Carbon Steel Rounds, ASTM A108	29.37	
For 316 Stainless Steel, Add	79.52	
For Aluminum, Add	4.47	
For Galvanized Steel, Add	15.41	
For 304 Stainless Steel, Add	70.82	
05 12 23 00-0627 LF 1-1/2" Carbon Steel Rounds, ASTM A108	32.68	
For 316 Stainless Steel, Add	87.23	
For Aluminum, Add	4.91	
For Galvanized Steel, Add	16.90	
For 304 Stainless Steel, Add	77.69	
05 12 23 00-0628 LF 1-5/8" Carbon Steel Rounds, ASTM A108	37.67	
For 316 Stainless Steel, Add	98.85	
For Aluminum, Add	5.56	
For Galvanized Steel, Add	19.15	
For 304 Stainless Steel, Add	88.04	
05 12 23 00-0629 LF 1-3/4" Carbon Steel Rounds, ASTM A108	44.99	
For 316 Stainless Steel, Add	115.04	
For Aluminum, Add	6.47	
For Galvanized Steel, Add	22.29	
For 304 Stainless Steel, Add	102.46	
05 12 23 00-0630 LF 1-7/8" Carbon Steel Rounds, ASTM A108	54.05	
For 316 Stainless Steel, Add	134.78	
For Aluminum, Add	7.58	
For Galvanized Steel, Add	26.11	
For 304 Stainless Steel, Add	120.04	
05 12 23 00-0631 LF 2" Carbon Steel Rounds, ASTM A108	61.68	
For 316 Stainless Steel, Add	149.92	
For Aluminum, Add	8.43	
For Galvanized Steel, Add	29.05	
For 304 Stainless Steel, Add	133.52	
05 12 23 00-0632 LF 2-1/8" Carbon Steel Rounds, ASTM A108	71.94	
For 316 Stainless Steel, Add	171.20	
For Aluminum, Add	9.63	
For Galvanized Steel, Add	33.17	
For 304 Stainless Steel, Add	152.48	
05 12 23 00-0633 LF 2-1/4" Carbon Steel Rounds, ASTM A108	81.35	
For 316 Stainless Steel, Add	192.51	
For Aluminum, Add	10.83	
For Galvanized Steel, Add	37.30	
For 304 Stainless Steel, Add	171.46	
05 12 23 00-0634 LF 2-3/8" Carbon Steel Rounds, ASTM A108	93.18	
For 316 Stainless Steel, Add	220.19	
For Aluminum, Add	12.39	
For Galvanized Steel, Add	42.66	
For 304 Stainless Steel, Add	196.11	
05 12 23 00-0635 LF 2-1/2" Carbon Steel Rounds, ASTM A108	102.76	
For 316 Stainless Steel, Add	237.28	
For Aluminum, Add	13.35	
For Galvanized Steel, Add	45.97	
For 304 Stainless Steel, Add	211.33	
05 12 23 00-0636 LF 2-5/8" Carbon Steel Rounds, ASTM A108	125.98	
For 316 Stainless Steel, Add	301.41	
For Aluminum, Add	16.95	
For Galvanized Steel, Add	58.40	
For 304 Stainless Steel, Add	268.44	
05 12 23 00-0637 LF 2-3/4" Carbon Steel Rounds, ASTM A108	143.44	
For 316 Stainless Steel, Add	343.71	
For Aluminum, Add	19.33	
For Galvanized Steel, Add	66.59	
For 304 Stainless Steel, Add	306.12	
05 12 23 00-0638 LF 2-7/8" Carbon Steel Rounds, ASTM A108	159.98	
For 316 Stainless Steel, Add	383.04	
For Aluminum, Add	21.55	
For Galvanized Steel, Add	74.21	
For 304 Stainless Steel, Add	341.15	
05 12 23 00-0639 LF 3" Carbon Steel Rounds, ASTM A108	167.80	
For 316 Stainless Steel, Add	394.53	
For Aluminum, Add	22.19	
For Galvanized Steel, Add	76.44	
For 304 Stainless Steel, Add	351.38	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0640	LF		3-1/8" Carbon Steel Rounds, ASTM A108.....	174.77	
			<i>For 316 Stainless Steel, Add</i>	403.26	
			<i>For Aluminum, Add</i>	22.68	
			<i>For Galvanized Steel, Add</i>	78.13	
			<i>For 304 Stainless Steel, Add</i>	359.16	
05 12 23 00-0641	LF		3-1/4" Carbon Steel Rounds, ASTM A108.....	184.16	
			<i>For 316 Stainless Steel, Add</i>	419.74	
			<i>For Aluminum, Add</i>	23.61	
			<i>For Galvanized Steel, Add</i>	81.33	
			<i>For 304 Stainless Steel, Add</i>	373.83	
05 12 23 00-0642	LF		3-1/2" Carbon Steel Rounds, ASTM A108.....	224.72	
			<i>For 316 Stainless Steel, Add</i>	532.58	
			<i>For Aluminum, Add</i>	29.96	
			<i>For Galvanized Steel, Add</i>	103.19	
			<i>For 304 Stainless Steel, Add</i>	474.33	
05 12 23 00-0643	LF		3-5/8" Carbon Steel Rounds, ASTM A108.....	249.77	
			<i>For 316 Stainless Steel, Add</i>	595.78	
			<i>For Aluminum, Add</i>	33.51	
			<i>For Galvanized Steel, Add</i>	115.43	
			<i>For 304 Stainless Steel, Add</i>	530.61	
05 12 23 00-0644	LF		3-3/4" Carbon Steel Rounds, ASTM A108.....	268.05	
			<i>For 316 Stainless Steel, Add</i>	637.31	
			<i>For Aluminum, Add</i>	35.85	
			<i>For Galvanized Steel, Add</i>	123.48	
			<i>For 304 Stainless Steel, Add</i>	567.61	
05 12 23 00-0645	LF		4" Carbon Steel Rounds, ASTM A108.....	300.94	
			<i>For 316 Stainless Steel, Add</i>	725.60	
			<i>For Aluminum, Add</i>	40.82	
			<i>For Galvanized Steel, Add</i>	140.59	
			<i>For 304 Stainless Steel, Add</i>	646.24	
05 12 23 00-0646			Square Stock <small>(05 12 23 00-0408)</small>		
05 12 23 00-0647	LF		3/8" Square Bar Stock.....	2.00	
			<i>For 316 Stainless Steel, Add</i>	2.46	
			<i>For Aluminum, Add</i>	0.14	
			<i>For Galvanized Steel, Add</i>	0.48	
			<i>For 304 Stainless Steel, Add</i>	2.19	
05 12 23 00-0648	LF		1/2" Square Bar Stock.....	2.72	
			<i>For 316 Stainless Steel, Add</i>	4.35	
			<i>For Aluminum, Add</i>	0.24	
			<i>For Galvanized Steel, Add</i>	0.84	
			<i>For 304 Stainless Steel, Add</i>	3.88	
05 12 23 00-0649	LF		5/8" Square Bar Stock.....	3.63	
			<i>For 316 Stainless Steel, Add</i>	6.78	
			<i>For Aluminum, Add</i>	0.38	
			<i>For Galvanized Steel, Add</i>	1.31	
			<i>For 304 Stainless Steel, Add</i>	6.04	
05 12 23 00-0650	LF		3/4" Square Bar Stock.....	4.86	
			<i>For 316 Stainless Steel, Add</i>	9.79	
			<i>For Aluminum, Add</i>	0.55	
			<i>For Galvanized Steel, Add</i>	1.90	
			<i>For 304 Stainless Steel, Add</i>	8.72	
05 12 23 00-0651	LF		7/8" Square Bar Stock.....	6.36	
			<i>For 316 Stainless Steel, Add</i>	13.66	
			<i>For Aluminum, Add</i>	0.77	
			<i>For Galvanized Steel, Add</i>	2.65	
			<i>For 304 Stainless Steel, Add</i>	12.17	
05 12 23 00-0652	LF		1" Square Bar Stock.....	7.93	
			<i>For 316 Stainless Steel, Add</i>	17.47	
			<i>For Aluminum, Add</i>	0.98	
			<i>For Galvanized Steel, Add</i>	3.39	
			<i>For 304 Stainless Steel, Add</i>	15.56	
05 12 23 00-0653	LF		1-1/4" Square Bar Stock.....	12.39	
			<i>For 316 Stainless Steel, Add</i>	27.26	
			<i>For Aluminum, Add</i>	1.53	
			<i>For Galvanized Steel, Add</i>	5.28	
			<i>For 304 Stainless Steel, Add</i>	24.28	
05 12 23 00-0654	LF		1-1/2" Square Bar Stock.....	17.70	
			<i>For 316 Stainless Steel, Add</i>	39.30	
			<i>For Aluminum, Add</i>	2.21	
			<i>For Galvanized Steel, Add</i>	7.61	
			<i>For 304 Stainless Steel, Add</i>	35.00	
05 12 23 00-0655	LF		1-3/4" Square Bar Stock.....	26.11	
			<i>For 316 Stainless Steel, Add</i>	54.62	
			<i>For Aluminum, Add</i>	3.07	
			<i>For Galvanized Steel, Add</i>	10.58	
			<i>For 304 Stainless Steel, Add</i>	48.65	
05 12 23 00-0656	LF		2" Square Bar Stock.....	37.01	
			<i>For 316 Stainless Steel, Add</i>	69.86	
			<i>For Aluminum, Add</i>	3.93	
			<i>For Galvanized Steel, Add</i>	13.53	
			<i>For 304 Stainless Steel, Add</i>	62.22	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0657 Steel Tubing <small>(05 12 23 00-0408)</small> Note: General purpose low-carbon steel.		
05 12 23 00-0658 Square Steel Tubing <small>(05 12 23 00-0657)</small>		
05 12 23 00-0659 0.06" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0660 LF 1/2" x 1/2" x 0.06" Square Steel Tubing.....	2.79	0.58
For >100 To 250, Deduct	-0.06	
For >250 To 500, Deduct	-0.13	
For >500 To 1,000, Deduct	-0.22	
For >1,000, Deduct	-0.31	
For 316 Stainless Steel, Add	6.43	
For Aluminum, Add	0.36	
For Galvanized Steel, Add	1.25	
For 304 Stainless Steel, Add	5.73	
05 12 23 00-0661 LF 3/4" x 3/4" x 0.06" Square Steel Tubing.....	4.28	0.92
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.20	
For >500 To 1,000, Deduct	-0.34	
For >1,000, Deduct	-0.47	
For 316 Stainless Steel, Add	9.79	
For Aluminum, Add	0.55	
For Galvanized Steel, Add	1.90	
For 304 Stainless Steel, Add	8.72	
05 12 23 00-0662 LF 1" x 1" x 0.06" Square Steel Tubing.....	5.75	1.66
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.45	
For >1,000, Deduct	-0.64	
For 316 Stainless Steel, Add	13.09	
For Aluminum, Add	0.74	
For Galvanized Steel, Add	2.54	
For 304 Stainless Steel, Add	11.66	
05 12 23 00-0663 LF 1-1/4" x 1-1/4" x 0.06" Square Steel Tubing.....	7.61	1.58
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.35	
For >500 To 1,000, Deduct	-0.59	
For >1,000, Deduct	-0.83	
For 316 Stainless Steel, Add	17.60	
For Aluminum, Add	0.99	
For Galvanized Steel, Add	3.41	
For 304 Stainless Steel, Add	15.68	
05 12 23 00-0664 LF 1-1/2" x 1-1/2" x 0.06" Square Steel Tubing.....	9.01	1.91
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.71	
For >1,000, Deduct	-0.99	
For 316 Stainless Steel, Add	20.67	
For Aluminum, Add	1.16	
For Galvanized Steel, Add	4.01	
For 304 Stainless Steel, Add	18.41	
05 12 23 00-0665 0.083" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0666 LF 3/4" x 3/4" x 0.083" Square Steel Tubing.....	4.98	1.08
For >100 To 250, Deduct	-0.11	
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.39	
For >1,000, Deduct	-0.55	
For 316 Stainless Steel, Add	11.36	
For Aluminum, Add	0.64	
For Galvanized Steel, Add	2.20	
For 304 Stainless Steel, Add	10.12	
05 12 23 00-0667 LF 1" x 1" x 0.083" Square Steel Tubing.....	7.26	1.47
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.33	
For >500 To 1,000, Deduct	-0.56	
For >1,000, Deduct	-0.79	
For 316 Stainless Steel, Add	16.96	
For Aluminum, Add	0.95	
For Galvanized Steel, Add	3.29	
For 304 Stainless Steel, Add	15.11	
05 12 23 00-0668 LF 1-1/4" x 1-1/4" x 0.083" Square Steel Tubing.....	8.76	1.87
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.41	
For >500 To 1,000, Deduct	-0.69	
For >1,000, Deduct	-0.97	
For 316 Stainless Steel, Add	20.03	
For Aluminum, Add	1.13	
For Galvanized Steel, Add	3.88	
For 304 Stainless Steel, Add	17.84	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0669 LF 1-1/2" x 1-1/2" x 0.083" Square Steel Tubing	10.59	2.28
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.49	
For >500 To 1,000, Deduct	-0.83	
For >1,000, Deduct	-1.17	
For 316 Stainless Steel, Add	24.16	
For Aluminum, Add	1.36	
For Galvanized Steel, Add	4.68	
For 304 Stainless Steel, Add	21.52	
05 12 23 00-0670 LF 2" x 2" x 0.083" Square Steel Tubing.....	13.56	3.04
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.64	
For >500 To 1,000, Deduct	-1.08	
For >1,000, Deduct	-1.52	
For 316 Stainless Steel, Add	30.43	
For Aluminum, Add	1.71	
For Galvanized Steel, Add	5.90	
For 304 Stainless Steel, Add	27.10	
05 12 23 00-0671 0.12" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0672 LF 1" x 1" x 0.12" Square Steel Tubing.....	7.99	1.75
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.38	
For >500 To 1,000, Deduct	-0.63	
For >1,000, Deduct	-0.89	
For 316 Stainless Steel, Add	18.08	
For Aluminum, Add	1.02	
For Galvanized Steel, Add	3.50	
For 304 Stainless Steel, Add	16.10	
05 12 23 00-0673 LF 1-1/4" x 1-1/4" x 0.12" Square Steel Tubing	10.29	2.26
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.48	
For >500 To 1,000, Deduct	-0.81	
For >1,000, Deduct	-1.15	
For 316 Stainless Steel, Add	23.33	
For Aluminum, Add	1.31	
For Galvanized Steel, Add	4.52	
For 304 Stainless Steel, Add	20.78	
05 12 23 00-0674 LF 1-1/2" x 1-1/2" x 0.12" Square Steel Tubing	12.64	2.75
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.59	
For >500 To 1,000, Deduct	-1.00	
For >1,000, Deduct	-1.41	
For 316 Stainless Steel, Add	28.70	
For Aluminum, Add	1.61	
For Galvanized Steel, Add	5.56	
For 304 Stainless Steel, Add	25.56	
05 12 23 00-0675 LF 2" x 2" x 0.12" Square Steel Tubing.....	17.11	3.75
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-1.36	
For >1,000, Deduct	-1.91	
For 316 Stainless Steel, Add	38.75	
For Aluminum, Add	2.18	
For Galvanized Steel, Add	7.51	
For 304 Stainless Steel, Add	34.51	
05 12 23 00-0676 1/8" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0677 LF 2" x 2" x 1/8" Square Steel Tubing.....	15.28	3.89
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-1.28	
For >1,000, Deduct	-1.79	
For 316 Stainless Steel, Add	32.29	
For Aluminum, Add	1.82	
For Galvanized Steel, Add	6.26	
For 304 Stainless Steel, Add	28.76	
05 12 23 00-0678 LF 2-1/2" x 2-1/2" x 1/8" Square Steel Tubing	20.21	4.93
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-1.00	
For >500 To 1,000, Deduct	-1.67	
For >1,000, Deduct	-2.34	
For 316 Stainless Steel, Add	43.62	
For Aluminum, Add	2.45	
For Galvanized Steel, Add	8.45	
For 304 Stainless Steel, Add	38.85	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0679	LF		3" x 3" x 1/8" Square Steel Tubing.....	23.64	5.96
			<i>For >100 To 250, Deduct</i>	-0.60	
			<i>For >250 To 500, Deduct</i>	-1.19	
			<i>For >500 To 1,000, Deduct</i>	-1.98	
			<i>For >1,000, Deduct</i>	-2.77	
			<i>For 316 Stainless Steel, Add</i>	50.18	
			<i>For Aluminum, Add</i>	2.82	
			<i>For Galvanized Steel, Add</i>	9.72	
			<i>For 304 Stainless Steel, Add</i>	44.69	
05 12 23 00-0680	LF		3-1/2" x 3-1/2" x 1/8" Square Steel Tubing.....	27.37	7.01
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 500, Deduct</i>	-1.38	
			<i>For >500 To 1,000, Deduct</i>	-2.30	
			<i>For >1,000, Deduct</i>	-3.22	
			<i>For 316 Stainless Steel, Add</i>	57.70	
			<i>For Aluminum, Add</i>	3.25	
			<i>For Galvanized Steel, Add</i>	11.18	
			<i>For 304 Stainless Steel, Add</i>	51.39	
05 12 23 00-0681	LF		4" x 4" x 1/8" Square Steel Tubing.....	30.09	8.05
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500 To 1,000, Deduct</i>	-2.58	
			<i>For >1,000, Deduct</i>	-3.60	
			<i>For 316 Stainless Steel, Add</i>	61.95	
			<i>For Aluminum, Add</i>	3.48	
			<i>For Galvanized Steel, Add</i>	12.00	
			<i>For 304 Stainless Steel, Add</i>	55.18	
05 12 23 00-0682			3/16" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0683	LF		2" x 2" x 3/16" Square Steel Tubing.....	17.34	4.39
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.87	
			<i>For >500 To 1,000, Deduct</i>	-1.45	
			<i>For >1,000, Deduct</i>	-2.03	
			<i>For 316 Stainless Steel, Add</i>	36.77	
			<i>For Aluminum, Add</i>	2.07	
			<i>For Galvanized Steel, Add</i>	7.12	
			<i>For 304 Stainless Steel, Add</i>	32.75	
05 12 23 00-0684	LF		2-1/2" x 2-1/2" x 3/16" Square Steel Tubing.....	22.44	5.68
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-1.13	
			<i>For >500 To 1,000, Deduct</i>	-1.88	
			<i>For >1,000, Deduct</i>	-2.63	
			<i>For 316 Stainless Steel, Add</i>	47.55	
			<i>For Aluminum, Add</i>	2.67	
			<i>For Galvanized Steel, Add</i>	9.21	
			<i>For 304 Stainless Steel, Add</i>	42.35	
05 12 23 00-0685	LF		3" x 3" x 3/16" Square Steel Tubing.....	27.58	6.98
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 500, Deduct</i>	-1.39	
			<i>For >500 To 1,000, Deduct</i>	-2.31	
			<i>For >1,000, Deduct</i>	-3.23	
			<i>For 316 Stainless Steel, Add</i>	58.46	
			<i>For Aluminum, Add</i>	3.29	
			<i>For Galvanized Steel, Add</i>	11.33	
			<i>For 304 Stainless Steel, Add</i>	52.07	
05 12 23 00-0686	LF		3-1/2" x 3-1/2" x 3/16" Square Steel Tubing.....	32.72	8.28
			<i>For >100 To 250, Deduct</i>	-0.83	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500 To 1,000, Deduct</i>	-2.74	
			<i>For >1,000, Deduct</i>	-3.84	
			<i>For 316 Stainless Steel, Add</i>	69.34	
			<i>For Aluminum, Add</i>	3.90	
			<i>For Galvanized Steel, Add</i>	13.44	
			<i>For 304 Stainless Steel, Add</i>	61.76	
05 12 23 00-0687	LF		4" x 4" x 3/16" Square Steel Tubing.....	37.82	9.58
			<i>For >100 To 250, Deduct</i>	-0.96	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500 To 1,000, Deduct</i>	-3.17	
			<i>For >1,000, Deduct</i>	-4.43	
			<i>For 316 Stainless Steel, Add</i>	80.16	
			<i>For Aluminum, Add</i>	4.51	
			<i>For Galvanized Steel, Add</i>	15.53	
			<i>For 304 Stainless Steel, Add</i>	71.39	
05 12 23 00-0688	LF		4-1/2" x 4-1/2" x 3/16" Square Steel Tubing.....	42.96	10.88
			<i>For >100 To 250, Deduct</i>	-1.09	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500 To 1,000, Deduct</i>	-3.60	
			<i>For >1,000, Deduct</i>	-5.04	
			<i>For 316 Stainless Steel, Add</i>	91.04	
			<i>For Aluminum, Add</i>	5.12	
			<i>For Galvanized Steel, Add</i>	17.64	
			<i>For 304 Stainless Steel, Add</i>	81.08	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0689	LF		5" x 5" x 3/16" Square Steel Tubing.....	48.06	12.17
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500 To 1,000, Deduct</i>	-4.03	
			<i>For >1,000, Deduct</i>	-5.63	
			<i>For 316 Stainless Steel, Add</i>	101.86	
			<i>For Aluminum, Add</i>	5.73	
			<i>For Galvanized Steel, Add</i>	19.73	
			<i>For 304 Stainless Steel, Add</i>	90.72	
05 12 23 00-0690	LF		6" x 6" x 3/16" Square Steel Tubing.....	58.33	14.77
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-2.94	
			<i>For >500 To 1,000, Deduct</i>	-4.89	
			<i>For >1,000, Deduct</i>	-6.84	
			<i>For 316 Stainless Steel, Add</i>	123.62	
			<i>For Aluminum, Add</i>	6.95	
			<i>For Galvanized Steel, Add</i>	23.95	
			<i>For 304 Stainless Steel, Add</i>	110.10	
05 12 23 00-0691			1/4" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0692	LF		2" x 2" x 1/4" Square Steel Tubing.....	18.56	4.40
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.90	
			<i>For >500 To 1,000, Deduct</i>	-1.51	
			<i>For >1,000, Deduct</i>	-2.12	
			<i>For 316 Stainless Steel, Add</i>	40.64	
			<i>For Aluminum, Add</i>	2.29	
			<i>For Galvanized Steel, Add</i>	7.87	
			<i>For 304 Stainless Steel, Add</i>	36.20	
05 12 23 00-0693	LF		2-1/2" x 2-1/2" x 1/4" Square Steel Tubing	24.39	5.78
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-1.19	
			<i>For >500 To 1,000, Deduct</i>	-1.99	
			<i>For >1,000, Deduct</i>	-2.79	
			<i>For 316 Stainless Steel, Add</i>	53.38	
			<i>For Aluminum, Add</i>	3.00	
			<i>For Galvanized Steel, Add</i>	10.34	
			<i>For 304 Stainless Steel, Add</i>	47.54	
05 12 23 00-0694	LF		3" x 3" x 1/4" Square Steel Tubing.....	30.22	7.16
			<i>For >100 To 250, Deduct</i>	-0.72	
			<i>For >250 To 500, Deduct</i>	-1.47	
			<i>For >500 To 1,000, Deduct</i>	-2.47	
			<i>For >1,000, Deduct</i>	-3.46	
			<i>For 316 Stainless Steel, Add</i>	66.14	
			<i>For Aluminum, Add</i>	3.72	
			<i>For Galvanized Steel, Add</i>	12.82	
			<i>For 304 Stainless Steel, Add</i>	58.91	
05 12 23 00-0695	LF		3-1/2" x 3-1/2" x 1/4" Square Steel Tubing	36.05	8.55
			<i>For >100 To 250, Deduct</i>	-0.85	
			<i>For >250 To 500, Deduct</i>	-1.76	
			<i>For >500 To 1,000, Deduct</i>	-2.94	
			<i>For >1,000, Deduct</i>	-4.13	
			<i>For 316 Stainless Steel, Add</i>	78.91	
			<i>For Aluminum, Add</i>	4.44	
			<i>For Galvanized Steel, Add</i>	15.29	
			<i>For 304 Stainless Steel, Add</i>	70.28	
05 12 23 00-0696	LF		4" x 4" x 1/4" Square Steel Tubing.....	41.89	9.93
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500 To 1,000, Deduct</i>	-3.42	
			<i>For >1,000, Deduct</i>	-4.80	
			<i>For 316 Stainless Steel, Add</i>	91.68	
			<i>For Aluminum, Add</i>	5.16	
			<i>For Galvanized Steel, Add</i>	17.76	
			<i>For 304 Stainless Steel, Add</i>	81.65	
05 12 23 00-0697	LF		4-1/2" x 4-1/2" x 1/4" Square Steel Tubing	47.72	11.31
			<i>For >100 To 250, Deduct</i>	-1.13	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500 To 1,000, Deduct</i>	-3.89	
			<i>For >1,000, Deduct</i>	-5.46	
			<i>For 316 Stainless Steel, Add</i>	104.45	
			<i>For Aluminum, Add</i>	5.88	
			<i>For Galvanized Steel, Add</i>	20.24	
			<i>For 304 Stainless Steel, Add</i>	93.02	
05 12 23 00-0698	LF		5" x 5" x 1/4" Square Steel Tubing.....	53.59	12.70
			<i>For >100 To 250, Deduct</i>	-1.27	
			<i>For >250 To 500, Deduct</i>	-2.61	
			<i>For >500 To 1,000, Deduct</i>	-4.37	
			<i>For >1,000, Deduct</i>	-6.14	
			<i>For 316 Stainless Steel, Add</i>	117.28	
			<i>For Aluminum, Add</i>	6.60	
			<i>For Galvanized Steel, Add</i>	22.72	
			<i>For 304 Stainless Steel, Add</i>	104.45	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0699	LF	6" x 6" x 1/4" Square Steel Tubing.....	65.25	15.47
		<i>For >100 To 250, Deduct</i>	-1.55	
		<i>For >250 To 500, Deduct</i>	-3.18	
		<i>For >500 To 1,000, Deduct</i>	-5.32	
		<i>For >1,000, Deduct</i>	-7.47	
		<i>For 316 Stainless Steel, Add</i>	142.82	
		<i>For Aluminum, Add</i>	8.03	
		<i>For Galvanized Steel, Add</i>	27.67	
		<i>For 304 Stainless Steel, Add</i>	127.20	
05 12 23 00-0700		Rectangular Steel Tubing (05 12 23 00-0657)		
05 12 23 00-0701		3/16" Wall Thickness (05 12 23 00-0700)		
05 12 23 00-0702	LF	3" x 2" x 3/16" Square Steel Tubing.....	22.44	5.68
		<i>For >100 To 250, Deduct</i>	-0.57	
		<i>For >250 To 500, Deduct</i>	-1.13	
		<i>For >500 To 1,000, Deduct</i>	-1.88	
		<i>For >1,000, Deduct</i>	-2.63	
		<i>For 316 Stainless Steel, Add</i>	47.55	
		<i>For Aluminum, Add</i>	2.67	
		<i>For Galvanized Steel, Add</i>	9.21	
		<i>For 304 Stainless Steel, Add</i>	42.35	
05 12 23 00-0703	LF	4" x 2" x 3/16" Square Steel Tubing.....	27.58	6.98
		<i>For >100 To 250, Deduct</i>	-0.70	
		<i>For >250 To 500, Deduct</i>	-1.39	
		<i>For >500 To 1,000, Deduct</i>	-2.31	
		<i>For >1,000, Deduct</i>	-3.23	
		<i>For 316 Stainless Steel, Add</i>	58.46	
		<i>For Aluminum, Add</i>	3.29	
		<i>For Galvanized Steel, Add</i>	11.33	
		<i>For 304 Stainless Steel, Add</i>	52.07	
05 12 23 00-0704	LF	4" x 3" x 3/16" Square Steel Tubing.....	32.72	8.28
		<i>For >100 To 250, Deduct</i>	-0.83	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500 To 1,000, Deduct</i>	-2.74	
		<i>For >1,000, Deduct</i>	-3.84	
		<i>For 316 Stainless Steel, Add</i>	69.34	
		<i>For Aluminum, Add</i>	3.90	
		<i>For Galvanized Steel, Add</i>	13.44	
		<i>For 304 Stainless Steel, Add</i>	61.76	
05 12 23 00-0705	LF	5" x 2" x 3/16" Square Steel Tubing.....	32.72	8.28
		<i>For >100 To 250, Deduct</i>	-0.83	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500 To 1,000, Deduct</i>	-2.74	
		<i>For >1,000, Deduct</i>	-3.84	
		<i>For 316 Stainless Steel, Add</i>	69.34	
		<i>For Aluminum, Add</i>	3.90	
		<i>For Galvanized Steel, Add</i>	13.44	
		<i>For 304 Stainless Steel, Add</i>	61.76	
05 12 23 00-0706	LF	5" x 3" x 3/16" Square Steel Tubing.....	37.82	9.58
		<i>For >100 To 250, Deduct</i>	-0.96	
		<i>For >250 To 500, Deduct</i>	-1.90	
		<i>For >500 To 1,000, Deduct</i>	-3.17	
		<i>For >1,000, Deduct</i>	-4.43	
		<i>For 316 Stainless Steel, Add</i>	80.16	
		<i>For Aluminum, Add</i>	4.51	
		<i>For Galvanized Steel, Add</i>	15.53	
		<i>For 304 Stainless Steel, Add</i>	71.39	
05 12 23 00-0707	LF	5" x 4" x 3/16" Square Steel Tubing.....	42.96	10.88
		<i>For >100 To 250, Deduct</i>	-1.09	
		<i>For >250 To 500, Deduct</i>	-2.16	
		<i>For >500 To 1,000, Deduct</i>	-3.60	
		<i>For >1,000, Deduct</i>	-5.04	
		<i>For 316 Stainless Steel, Add</i>	91.04	
		<i>For Aluminum, Add</i>	5.12	
		<i>For Galvanized Steel, Add</i>	17.64	
		<i>For 304 Stainless Steel, Add</i>	81.08	
05 12 23 00-0708	LF	6" x 2" x 3/16" Square Steel Tubing.....	37.82	9.58
		<i>For >100 To 250, Deduct</i>	-0.96	
		<i>For >250 To 500, Deduct</i>	-1.90	
		<i>For >500 To 1,000, Deduct</i>	-3.17	
		<i>For >1,000, Deduct</i>	-4.43	
		<i>For 316 Stainless Steel, Add</i>	80.16	
		<i>For Aluminum, Add</i>	4.51	
		<i>For Galvanized Steel, Add</i>	15.53	
		<i>For 304 Stainless Steel, Add</i>	71.39	
05 12 23 00-0709	LF	6" x 3" x 3/16" Square Steel Tubing.....	42.96	10.88
		<i>For >100 To 250, Deduct</i>	-1.09	
		<i>For >250 To 500, Deduct</i>	-2.16	
		<i>For >500 To 1,000, Deduct</i>	-3.60	
		<i>For >1,000, Deduct</i>	-5.04	
		<i>For 316 Stainless Steel, Add</i>	91.04	
		<i>For Aluminum, Add</i>	5.12	
		<i>For Galvanized Steel, Add</i>	17.64	
		<i>For 304 Stainless Steel, Add</i>	81.08	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0710 LF 6" x 4" x 3/16" Square Steel Tubing.....	48.06	12.17
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.42	
For >500 To 1,000, Deduct	-4.03	
For >1,000, Deduct	-5.63	
For 316 Stainless Steel, Add	101.86	
For Aluminum, Add	5.73	
For Galvanized Steel, Add	19.73	
For 304 Stainless Steel, Add	90.72	
05 12 23 00-0711 1/4" Wall Thickness (05 12 23 00-0700)		
05 12 23 00-0712 LF 3" x 2" x 1/4" Square Steel Tubing.....	24.39	5.78
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-1.19	
For >500 To 1,000, Deduct	-1.99	
For >1,000, Deduct	-2.79	
For 316 Stainless Steel, Add	53.38	
For Aluminum, Add	3.00	
For Galvanized Steel, Add	10.34	
For 304 Stainless Steel, Add	47.54	
05 12 23 00-0713 LF 4" x 2" x 1/4" Square Steel Tubing.....	30.22	7.16
For >100 To 250, Deduct	-0.72	
For >250 To 500, Deduct	-1.47	
For >500 To 1,000, Deduct	-2.47	
For >1,000, Deduct	-3.46	
For 316 Stainless Steel, Add	66.14	
For Aluminum, Add	3.72	
For Galvanized Steel, Add	12.82	
For 304 Stainless Steel, Add	58.91	
05 12 23 00-0714 LF 4" x 3" x 1/4" Square Steel Tubing.....	36.05	8.55
For >100 To 250, Deduct	-0.85	
For >250 To 500, Deduct	-1.76	
For >500 To 1,000, Deduct	-2.94	
For >1,000, Deduct	-4.13	
For 316 Stainless Steel, Add	78.91	
For Aluminum, Add	4.44	
For Galvanized Steel, Add	15.29	
For 304 Stainless Steel, Add	70.28	
05 12 23 00-0715 LF 5" x 2" x 1/4" Square Steel Tubing.....	36.05	8.55
For >100 To 250, Deduct	-0.85	
For >250 To 500, Deduct	-1.76	
For >500 To 1,000, Deduct	-2.94	
For >1,000, Deduct	-4.13	
For 316 Stainless Steel, Add	78.91	
For Aluminum, Add	4.44	
For Galvanized Steel, Add	15.29	
For 304 Stainless Steel, Add	70.28	
05 12 23 00-0716 LF 5" x 3" x 1/4" Square Steel Tubing.....	41.89	9.93
For >100 To 250, Deduct	-0.99	
For >250 To 500, Deduct	-2.04	
For >500 To 1,000, Deduct	-3.42	
For >1,000, Deduct	-4.80	
For 316 Stainless Steel, Add	91.68	
For Aluminum, Add	5.16	
For Galvanized Steel, Add	17.76	
For 304 Stainless Steel, Add	81.65	
05 12 23 00-0717 LF 5" x 4" x 1/4" Square Steel Tubing.....	47.72	11.31
For >100 To 250, Deduct	-1.13	
For >250 To 500, Deduct	-2.32	
For >500 To 1,000, Deduct	-3.89	
For >1,000, Deduct	-5.46	
For 316 Stainless Steel, Add	104.45	
For Aluminum, Add	5.88	
For Galvanized Steel, Add	20.24	
For 304 Stainless Steel, Add	93.02	
05 12 23 00-0718 LF 6" x 2" x 1/4" Square Steel Tubing.....	41.89	9.93
For >100 To 250, Deduct	-0.99	
For >250 To 500, Deduct	-2.04	
For >500 To 1,000, Deduct	-3.42	
For >1,000, Deduct	-4.80	
For 316 Stainless Steel, Add	91.68	
For Aluminum, Add	5.16	
For Galvanized Steel, Add	17.76	
For 304 Stainless Steel, Add	81.65	
05 12 23 00-0719 LF 6" x 3" x 1/4" Square Steel Tubing.....	47.72	11.31
For >100 To 250, Deduct	-1.13	
For >250 To 500, Deduct	-2.32	
For >500 To 1,000, Deduct	-3.89	
For >1,000, Deduct	-5.46	
For 316 Stainless Steel, Add	104.45	
For Aluminum, Add	5.88	
For Galvanized Steel, Add	20.24	
For 304 Stainless Steel, Add	93.02	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0720	LF	6" x 4" x 1/4" Square Steel Tubing.....	53.59	12.70
		<i>For >100 To 250, Deduct</i>	-1.27	
		<i>For >250 To 500, Deduct</i>	-2.61	
		<i>For >500 To 1,000, Deduct</i>	-4.37	
		<i>For >1,000, Deduct</i>	-6.14	
		<i>For 316 Stainless Steel, Add</i>	117.28	
		<i>For Aluminum, Add</i>	6.60	
		<i>For Galvanized Steel, Add</i>	22.72	
		<i>For 304 Stainless Steel, Add</i>	104.45	
05 12 23 00-0721		Round Steel Tubing <small>(05 12 23 00-0657)</small>		
05 12 23 00-0722		0.065" Wall Thickness <small>(05 12 23 00-0721)</small>		
05 12 23 00-0723	LF	1" Diameter x 0.065" Round Steel Tubing	4.98	1.06
		<i>For >100 To 250, Deduct</i>	-0.11	
		<i>For >250 To 500, Deduct</i>	-0.23	
		<i>For >500 To 1,000, Deduct</i>	-0.39	
		<i>For >1,000, Deduct</i>	-0.55	
		<i>For 316 Stainless Steel, Add</i>	11.42	
		<i>For Aluminum, Add</i>	0.64	
		<i>For Galvanized Steel, Add</i>	2.21	
		<i>For 304 Stainless Steel, Add</i>	10.17	
05 12 23 00-0724	LF	1-1/4" Diameter x 0.065" Round Steel Tubing	6.30	1.34
		<i>For >100 To 250, Deduct</i>	-0.13	
		<i>For >250 To 500, Deduct</i>	-0.29	
		<i>For >500 To 1,000, Deduct</i>	-0.49	
		<i>For >1,000, Deduct</i>	-0.70	
		<i>For 316 Stainless Steel, Add</i>	14.46	
		<i>For Aluminum, Add</i>	0.81	
		<i>For Galvanized Steel, Add</i>	2.80	
		<i>For 304 Stainless Steel, Add</i>	12.88	
05 12 23 00-0725	LF	1-1/2" Diameter x 0.065" Round Steel Tubing	7.63	1.62
		<i>For >100 To 250, Deduct</i>	-0.16	
		<i>For >250 To 500, Deduct</i>	-0.35	
		<i>For >500 To 1,000, Deduct</i>	-0.60	
		<i>For >1,000, Deduct</i>	-0.84	
		<i>For 316 Stainless Steel, Add</i>	17.50	
		<i>For Aluminum, Add</i>	0.98	
		<i>For Galvanized Steel, Add</i>	3.39	
		<i>For 304 Stainless Steel, Add</i>	15.59	
05 12 23 00-0726	LF	2" Diameter x 0.065" Round Steel Tubing	10.29	2.19
		<i>For >100 To 250, Deduct</i>	-0.22	
		<i>For >250 To 500, Deduct</i>	-0.48	
		<i>For >500 To 1,000, Deduct</i>	-0.81	
		<i>For >1,000, Deduct</i>	-1.14	
		<i>For 316 Stainless Steel, Add</i>	23.62	
		<i>For Aluminum, Add</i>	1.33	
		<i>For Galvanized Steel, Add</i>	4.58	
		<i>For 304 Stainless Steel, Add</i>	21.03	
05 12 23 00-0727	LF	2-1/2" Diameter x 0.065" Round Steel Tubing	12.96	2.75
		<i>For >100 To 250, Deduct</i>	-0.28	
		<i>For >250 To 500, Deduct</i>	-0.60	
		<i>For >500 To 1,000, Deduct</i>	-1.02	
		<i>For >1,000, Deduct</i>	-1.43	
		<i>For 316 Stainless Steel, Add</i>	29.73	
		<i>For Aluminum, Add</i>	1.67	
		<i>For Galvanized Steel, Add</i>	5.76	
		<i>For 304 Stainless Steel, Add</i>	26.48	
05 12 23 00-0728	LF	3" Diameter x 0.065" Round Steel Tubing	15.62	3.31
		<i>For >100 To 250, Deduct</i>	-0.33	
		<i>For >250 To 500, Deduct</i>	-0.72	
		<i>For >500 To 1,000, Deduct</i>	-1.22	
		<i>For >1,000, Deduct</i>	-1.72	
		<i>For 316 Stainless Steel, Add</i>	35.84	
		<i>For Aluminum, Add</i>	2.02	
		<i>For Galvanized Steel, Add</i>	6.94	
		<i>For 304 Stainless Steel, Add</i>	31.92	
05 12 23 00-0729	LF	3-1/2" Diameter x 0.065" Round Steel Tubing	18.28	3.88
		<i>For >100 To 250, Deduct</i>	-0.39	
		<i>For >250 To 500, Deduct</i>	-0.84	
		<i>For >500 To 1,000, Deduct</i>	-1.43	
		<i>For >1,000, Deduct</i>	-2.02	
		<i>For 316 Stainless Steel, Add</i>	41.95	
		<i>For Aluminum, Add</i>	2.36	
		<i>For Galvanized Steel, Add</i>	8.13	
		<i>For 304 Stainless Steel, Add</i>	37.36	
05 12 23 00-0730	LF	4" Diameter x 0.065" Round Steel Tubing	20.94	4.44
		<i>For >100 To 250, Deduct</i>	-0.44	
		<i>For >250 To 500, Deduct</i>	-0.97	
		<i>For >500 To 1,000, Deduct</i>	-1.64	
		<i>For >1,000, Deduct</i>	-2.31	
		<i>For 316 Stainless Steel, Add</i>	48.06	
		<i>For Aluminum, Add</i>	2.70	
		<i>For Galvanized Steel, Add</i>	9.31	
		<i>For 304 Stainless Steel, Add</i>	42.81	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0731 0.083" Wall Thickness <small>(05 12 23 00-0721)</small>		
05 12 23 00-0732 LF 1" Diameter x 0.083" Round Steel Tubing	5.40	1.16
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.25	
For >500 To 1,000, Deduct	-0.42	
For >1,000, Deduct	-0.60	
For 316 Stainless Steel, Add	12.35	
For Aluminum, Add	0.69	
For Galvanized Steel, Add	2.39	
For 304 Stainless Steel, Add	11.00	
05 12 23 00-0733 LF 1-1/4" Diameter x 0.083" Round Steel Tubing	6.87	1.47
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.32	
For >500 To 1,000, Deduct	-0.54	
For >1,000, Deduct	-0.76	
For 316 Stainless Steel, Add	15.71	
For Aluminum, Add	0.88	
For Galvanized Steel, Add	3.04	
For 304 Stainless Steel, Add	13.99	
05 12 23 00-0734 LF 1-1/2" Diameter x 0.083" Round Steel Tubing	8.35	1.78
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.39	
For >500 To 1,000, Deduct	-0.66	
For >1,000, Deduct	-0.93	
For 316 Stainless Steel, Add	19.07	
For Aluminum, Add	1.07	
For Galvanized Steel, Add	3.70	
For 304 Stainless Steel, Add	16.99	
05 12 23 00-0735 LF 2" Diameter x 0.083" Round Steel Tubing	11.29	2.42
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.52	
For >500 To 1,000, Deduct	-0.89	
For >1,000, Deduct	-1.25	
For 316 Stainless Steel, Add	25.82	
For Aluminum, Add	1.45	
For Galvanized Steel, Add	5.00	
For 304 Stainless Steel, Add	23.00	
05 12 23 00-0736 LF 2-1/2" Diameter x 0.083" Round Steel Tubing	14.25	3.05
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.66	
For >500 To 1,000, Deduct	-1.12	
For >1,000, Deduct	-1.58	
For 316 Stainless Steel, Add	32.58	
For Aluminum, Add	1.83	
For Galvanized Steel, Add	6.31	
For 304 Stainless Steel, Add	29.01	
05 12 23 00-0737 LF 3" Diameter x 0.083" Round Steel Tubing	17.19	3.68
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-1.35	
For >1,000, Deduct	-1.90	
For 316 Stainless Steel, Add	39.30	
For Aluminum, Add	2.21	
For Galvanized Steel, Add	7.61	
For 304 Stainless Steel, Add	35.00	
05 12 23 00-0738 LF 3-1/2" Diameter x 0.083" Round Steel Tubing	20.13	4.31
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.93	
For >500 To 1,000, Deduct	-1.58	
For >1,000, Deduct	-2.23	
For 316 Stainless Steel, Add	46.02	
For Aluminum, Add	2.59	
For Galvanized Steel, Add	8.92	
For 304 Stainless Steel, Add	40.98	
05 12 23 00-0739 LF 4" Diameter x 0.083" Round Steel Tubing	23.08	4.95
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-1.07	
For >500 To 1,000, Deduct	-1.81	
For >1,000, Deduct	-2.55	
For 316 Stainless Steel, Add	52.77	
For Aluminum, Add	2.97	
For Galvanized Steel, Add	10.22	
For 304 Stainless Steel, Add	47.00	

05 12 23 00-0740 0.125" Wall Thickness (05 12 23 00-0721)

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0741	LF		2" Diameter x 0.125" Round Steel Tubing	11.99	3.05
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.61	
			<i>For >500 To 1,000, Deduct</i>	-1.01	
			<i>For >1,000, Deduct</i>	-1.41	
			<i>For 316 Stainless Steel, Add</i>	25.34	
			<i>For Aluminum, Add</i>	1.43	
			<i>For Galvanized Steel, Add</i>	4.91	
			<i>For 304 Stainless Steel, Add</i>	22.57	
05 12 23 00-0742	LF		2-1/2" Diameter x 0.125" Round Steel Tubing	15.19	3.87
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.77	
			<i>For >500 To 1,000, Deduct</i>	-1.28	
			<i>For >1,000, Deduct</i>	-1.78	
			<i>For 316 Stainless Steel, Add</i>	32.10	
			<i>For Aluminum, Add</i>	1.81	
			<i>For Galvanized Steel, Add</i>	6.22	
			<i>For 304 Stainless Steel, Add</i>	28.59	
05 12 23 00-0743	LF		3" Diameter x 0.125" Round Steel Tubing	18.39	4.68
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.93	
			<i>For >500 To 1,000, Deduct</i>	-1.54	
			<i>For >1,000, Deduct</i>	-2.16	
			<i>For 316 Stainless Steel, Add</i>	38.85	
			<i>For Aluminum, Add</i>	2.19	
			<i>For Galvanized Steel, Add</i>	7.53	
			<i>For 304 Stainless Steel, Add</i>	34.60	
05 12 23 00-0744	LF		3-1/2" Diameter x 0.125" Round Steel Tubing	21.58	5.50
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-1.09	
			<i>For >500 To 1,000, Deduct</i>	-1.81	
			<i>For >1,000, Deduct</i>	-2.53	
			<i>For 316 Stainless Steel, Add</i>	45.60	
			<i>For Aluminum, Add</i>	2.57	
			<i>For Galvanized Steel, Add</i>	8.84	
			<i>For 304 Stainless Steel, Add</i>	40.61	
05 12 23 00-0745	LF		4" Diameter x 0.125" Round Steel Tubing	24.77	6.31
			<i>For >100 To 250, Deduct</i>	-0.63	
			<i>For >250 To 500, Deduct</i>	-1.25	
			<i>For >500 To 1,000, Deduct</i>	-2.08	
			<i>For >1,000, Deduct</i>	-2.91	
			<i>For 316 Stainless Steel, Add</i>	52.35	
			<i>For Aluminum, Add</i>	2.94	
			<i>For Galvanized Steel, Add</i>	10.14	
			<i>For 304 Stainless Steel, Add</i>	46.63	
05 12 23 00-0746			Flat Steel Bar <small>(05 12 23 00-0408)</small>		
05 12 23 00-0747			1/8" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0748	LF		1/8" Thick x 1" Wide Flat Steel Bar	3.32	1.52
			<i>For 316 Stainless Steel, Add</i>	3.33	
			<i>For Aluminum, Add</i>	0.19	
			<i>For Galvanized Steel, Add</i>	0.64	
			<i>For 304 Stainless Steel, Add</i>	2.96	
05 12 23 00-0749	LF		1/8" Thick x 2" Wide Flat Steel Bar	5.15	2.28
			<i>For 316 Stainless Steel, Add</i>	5.54	
			<i>For Aluminum, Add</i>	0.31	
			<i>For Galvanized Steel, Add</i>	1.07	
			<i>For 304 Stainless Steel, Add</i>	4.93	
05 12 23 00-0750	LF		1/8" Thick x 4" Wide Flat Steel Bar	7.96	3.21
			<i>For 316 Stainless Steel, Add</i>	10.05	
			<i>For Aluminum, Add</i>	0.57	
			<i>For Galvanized Steel, Add</i>	1.95	
			<i>For 304 Stainless Steel, Add</i>	8.95	
05 12 23 00-0751	LF		1/8" Thick x 6" Wide Flat Steel Bar	10.79	4.36
			<i>For 316 Stainless Steel, Add</i>	13.60	
			<i>For Aluminum, Add</i>	0.77	
			<i>For Galvanized Steel, Add</i>	2.64	
			<i>For 304 Stainless Steel, Add</i>	12.11	
05 12 23 00-0752			3/16" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0753	LF		3/16" Thick x 1" Wide Flat Steel Bar	4.41	1.88
			<i>For 316 Stainless Steel, Add</i>	5.06	
			<i>For Aluminum, Add</i>	0.28	
			<i>For Galvanized Steel, Add</i>	0.98	
			<i>For 304 Stainless Steel, Add</i>	4.50	
05 12 23 00-0754	LF		3/16" Thick x 2" Wide Flat Steel Bar	6.98	2.83
			<i>For 316 Stainless Steel, Add</i>	8.74	
			<i>For Aluminum, Add</i>	0.49	
			<i>For Galvanized Steel, Add</i>	1.69	
			<i>For 304 Stainless Steel, Add</i>	7.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0755 LF 3/16" Thick x 4" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	9.49 14.75 0.83 2.86 13.14	3.25
05 12 23 00-0756 LF 3/16" Thick x 6" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	13.14 20.38 1.15 3.95 18.15	4.51
05 12 23 00-0757 1/4" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0758 LF 1/4" Thick x 1" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	4.55 4.99 0.28 0.97 4.45	1.99
05 12 23 00-0759 LF 1/4" Thick x 2" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	7.65 10.11 0.57 1.96 9.01	2.99
05 12 23 00-0760 LF 1/4" Thick x 4" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	11.25 19.58 1.10 3.79 17.44	3.42
05 12 23 00-0761 LF 1/4" Thick x 6" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	16.27 27.74 1.56 5.38 24.71	5.06
05 12 23 00-0762 3/8" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0763 LF 3/8" Thick x 1" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	5.82 7.84 0.44 1.52 6.98	2.25
05 12 23 00-0764 LF 3/8" Thick x 2" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	9.59 14.50 0.82 2.81 12.91	3.36
05 12 23 00-0765 LF 3/8" Thick x 4" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	14.82 28.96 1.63 5.61 25.79	3.84
05 12 23 00-0766 LF 3/8" Thick x 6" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	21.28 40.77 2.29 7.90 36.31	5.68
05 12 23 00-0767 1/2" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0768 LF 1/2" Thick x 1" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	6.85 10.05 0.57 1.95 8.95	2.46
05 12 23 00-0769 LF 1/2" Thick x 2" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	11.34 18.50 1.04 3.58 16.47	3.71
05 12 23 00-0770 LF 1/2" Thick x 4" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	16.19 31.49 1.77 6.10 28.04	4.22
05 12 23 00-0771 LF 1/2" Thick x 6" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	29.02 62.82 3.53 12.17 55.95	6.26
05 12 23 00-0772 Flat Steel Plate <small>(05 12 23 00-0408)</small>		

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0773 SF 1/8" Thick Flat Steel Plate.....	17.22	6.54
For 316 Stainless Steel, Add	23.71	
For Aluminum, Add	1.33	
For Galvanized Steel, Add	4.59	
For 304 Stainless Steel, Add	21.12	
05 12 23 00-0774 SF 3/16" Thick Flat Steel Plate.....	19.44	6.77
For 316 Stainless Steel, Add	29.66	
For Aluminum, Add	1.67	
For Galvanized Steel, Add	5.75	
For 304 Stainless Steel, Add	26.42	
05 12 23 00-0775 SF 1/4" Thick Flat Steel Plate.....	23.20	7.58
For 316 Stainless Steel, Add	37.82	
For Aluminum, Add	2.13	
For Galvanized Steel, Add	7.33	
For 304 Stainless Steel, Add	33.69	
05 12 23 00-0776 SF 3/8" Thick Flat Steel Plate.....	31.35	8.53
For 316 Stainless Steel, Add	59.36	
For Aluminum, Add	3.34	
For Galvanized Steel, Add	11.50	
For 304 Stainless Steel, Add	52.87	
05 12 23 00-0777 SF 1/2" Thick Flat Steel Plate.....	37.19	9.38
For 316 Stainless Steel, Add	73.95	
For Aluminum, Add	4.16	
For Galvanized Steel, Add	14.33	
For 304 Stainless Steel, Add	65.86	
05 12 23 00-0778 SF 3/4" Thick Flat Steel Plate.....	60.94	11.63
For 316 Stainless Steel, Add	138.66	
For Aluminum, Add	7.80	
For Galvanized Steel, Add	26.86	
For 304 Stainless Steel, Add	123.49	
05 12 23 00-0779 SF 1" Thick Flat Steel Plate.....	81.34	14.53
For 316 Stainless Steel, Add	189.86	
For Aluminum, Add	10.68	
For Galvanized Steel, Add	36.78	
For 304 Stainless Steel, Add	169.09	

05 13 Structural Stainless-Steel Framing (05 10)

05 13 00 00-0001 Stainless Steel Tube (05 13)		
05 13 00 00-0002 LF 1" x 1" Stainless Steel Tube.....	35.97	
05 13 00 00-0003 LF 1-1/2" x 1-1/2" Stainless Steel Tube	46.68	
05 13 00 00-0004 LF 2" x 2" Stainless Steel Tube.....	63.63	

05 14 Structural Aluminum Framing (05 10)**05 14 13 Architecturally-Exposed Structural Aluminum Framing** (05 14)

05 14 13 00-0001 Rolled Or Plate Shapes (05 14 13)		
Note: 1" through 10" member.		
05 14 13 00-0002 LB Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members	8.86	0.86
05 14 13 00-0003 LB Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members	7.80	0.80
05 14 13 00-0004 Aluminum Extrusions (05 14 13)		
05 14 13 00-0005 LB Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	14.51	3.59
05 14 13 00-0006 LB Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members.....	15.36	3.59
05 14 13 00-0007 Aluminum Tubing (05 14 13)		
05 14 13 00-0008 LB Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members.....	13.04	2.25
05 14 13 00-0009 LF 1" x 1" Aluminum Tubing, 1/8" Wall Thickness	11.75	3.62
05 14 13 00-0010 LF 1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness	14.19	3.94
05 14 13 00-0011 LF 1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness	16.29	4.60
05 14 13 00-0012 LF 2" x 2" Aluminum Tubing, 1/8" Wall Thickness	19.35	4.94
05 14 13 00-0013 LF 4" x 4" Aluminum Tubing, 1/4" Wall Thickness	56.14	6.26
05 14 13 00-0014 LF 2" x 5" Aluminum Tubing, 1/4" Wall Thickness	46.00	5.60
05 14 13 00-0015 Columns (05 14 13)		
Note: Baked on paint finish, load bearing.		
05 14 13 00-0016 Round Columns (05 14 13 00-0015)		
05 14 13 00-0017 LF 6" Diameter Aluminum Column.....	51.82	7.10
05 14 13 00-0018 LF 8" Diameter Aluminum Column.....	68.92	10.17
05 14 13 00-0019 LF 10" Diameter Aluminum Column	84.17	11.45
05 14 13 00-0020 LF 12" Diameter Aluminum Column.....	126.74	11.98
05 14 13 00-0021 LF 15" Diameter Aluminum Column.....	161.86	13.88
05 14 13 00-0022 EA 6" Diameter Aluminum Base And Cap	100.75	13.25
05 14 13 00-0023 EA 8" Diameter Aluminum Base And Cap.....	115.38	14.31
05 14 13 00-0024 EA 10" Diameter Aluminum Base And Cap.....	145.86	15.90
05 14 13 00-0025 EA 12" Diameter Aluminum Base And Cap.....	253.08	16.96



Metals	05	05
Structural Metal Framing	05 10	
Structural Aluminum Framing	05 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 13 00-0026 EA 15" Diameter Aluminum Base And Cap.....	388.21	18.55
05 14 13 00-0027 Octagonal Columns (05 14 13 00-0015)		
05 14 13 00-0028 LF 6" Diameter Aluminum Column.....	57.83	7.10
05 14 13 00-0029 LF 8" Diameter Aluminum Column.....	78.63	10.17
05 14 13 00-0030 LF 10" Diameter Aluminum Column.....	96.42	11.45
05 14 13 00-0031 LF 12" Diameter Aluminum Column.....	147.31	11.98
05 14 13 00-0032 LF 15" Diameter Aluminum Column.....	188.69	13.88
05 14 13 00-0033 EA 6" Diameter Aluminum Base And Cap.....	115.60	13.25
05 14 13 00-0034 EA 8" Diameter Aluminum Base And Cap.....	132.74	14.31
05 14 13 00-0035 EA 10" Diameter Aluminum Base And Cap.....	168.67	15.90
05 14 13 00-0036 EA 12" Diameter Aluminum Base And Cap.....	296.92	16.96
05 14 13 00-0037 EA 15" Diameter Aluminum Base And Cap.....	458.44	18.55
05 14 13 00-0038 Fluted Columns (05 14 13 00-0015)		
05 14 13 00-0039 LF 6" Diameter Aluminum Column.....	64.39	7.10
05 14 13 00-0040 LF 8" Diameter Aluminum Column.....	87.36	10.17
05 14 13 00-0041 LF 10" Diameter Aluminum Column.....	107.45	11.45
05 14 13 00-0042 LF 12" Diameter Aluminum Column.....	165.83	11.98
05 14 13 00-0043 LF 15" Diameter Aluminum Column.....	212.85	13.88
05 14 13 00-0044 EA 6" Diameter Aluminum Base And Cap.....	128.97	13.25
05 14 13 00-0045 EA 8" Diameter Aluminum Base And Cap.....	148.36	14.31
05 14 13 00-0046 EA 10" Diameter Aluminum Base And Cap.....	189.20	15.90
05 14 13 00-0047 EA 12" Diameter Aluminum Base And Cap.....	336.37	16.96
05 14 13 00-0048 EA 15" Diameter Aluminum Base And Cap.....	521.64	18.55
05 14 13 00-0049 Square Columns (05 14 13 00-0015)		
05 14 13 00-0050 LF 6" Aluminum Column.....	68.87	7.10
05 14 13 00-0051 LF 8" Aluminum Column.....	93.34	10.17
05 14 13 00-0052 LF 10" Aluminum Column.....	115.00	11.45
05 14 13 00-0053 LF 12" Aluminum Column.....	178.49	11.98
05 14 13 00-0054 LF 15" Aluminum Column.....	229.37	13.88
05 14 13 00-0055 EA 6" Aluminum Base And Cap.....	138.11	13.25
05 14 13 00-0056 EA 8" Aluminum Base And Cap.....	159.04	14.31
05 14 13 00-0057 EA 10" Aluminum Base And Cap.....	203.24	15.90
05 14 13 00-0058 EA 12" Aluminum Base And Cap.....	363.35	16.96
05 14 13 00-0059 EA 15" Aluminum Base And Cap.....	564.86	18.55
05 14 13 00-0060 Ornamental Or Decorative Cap And Bases (05 14 13 00-0015)		
05 14 13 00-0061 EA 8" Corinthian Capital And Base.....	787.72	15.90
05 14 13 00-0062 EA 10" Corinthian Capital And Base.....	1,159.67	18.55
05 14 13 00-0063 EA 12" Corinthian Capital And Base.....	1,835.28	21.20
05 14 13 00-0064 EA 8" Scamozzi Capital And Base.....	390.38	15.90
05 14 13 00-0065 EA 10" Scamozzi Capital And Base.....	523.27	18.55
05 14 13 00-0066 EA 12" Scamozzi Capital And Base.....	1,054.16	21.20
05 15 Wire Rope Assemblies (05 10)		
05 15 16 Steel Wire Rope Assemblies (05 15)		
05 15 16 00-0001 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)		
05 15 16 00-0002 LF 1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.47	0.11
For >500, Deduct	-0.26	
05 15 16 00-0003 LF 5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.98	0.11
For >500, Deduct	-0.34	
05 15 16 00-0004 LF 3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.35	0.22
For >500, Deduct	-0.39	
05 15 16 00-0005 LF 7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.85	0.22
For >500, Deduct	-0.45	
05 15 16 00-0006 LF 1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.30	0.32
For >500, Deduct	-0.51	
05 15 16 00-0007 LF 9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.05	0.43
For >500, Deduct	-0.62	
05 15 16 00-0008 LF 5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.84	0.43
For >500, Deduct	-0.73	
05 15 16 00-0009 LF 3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	6.72	0.76
For >500, Deduct	-1.00	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0010	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	9.03	0.87
		<i>For >500, Deduct</i>	-1.34	
05 15 16 00-0011	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	11.26	1.19
		<i>For >500, Deduct</i>	-1.64	
05 15 16 00-0012	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	13.92	1.52
		<i>For >500, Deduct</i>	-2.02	
05 15 16 00-0013	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	16.97	1.84
		<i>For >500, Deduct</i>	-2.46	
05 15 16 00-0014		6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope ^(05 15 16)		
05 15 16 00-0015	LF	1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.72	0.11
		<i>For >500, Deduct</i>	-0.31	
05 15 16 00-0016	LF	5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.23	0.11
		<i>For >500, Deduct</i>	-0.39	
05 15 16 00-0017	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.77	0.22
		<i>For >500, Deduct</i>	-0.47	
05 15 16 00-0018	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.17	0.22
		<i>For >500, Deduct</i>	-0.52	
05 15 16 00-0019	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.77	0.32
		<i>For >500, Deduct</i>	-0.60	
05 15 16 00-0020	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.36	0.43
		<i>For >500, Deduct</i>	-0.68	
05 15 16 00-0021	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.10	0.43
		<i>For >500, Deduct</i>	-0.78	
05 15 16 00-0022	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.48	0.76
		<i>For >500, Deduct</i>	-1.15	
05 15 16 00-0023	LF	7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	9.59	0.87
		<i>For >500, Deduct</i>	-1.45	
05 15 16 00-0024	LF	1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	11.81	1.19
		<i>For >500, Deduct</i>	-1.76	
05 15 16 00-0025	LF	1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	15.13	1.52
		<i>For >500, Deduct</i>	-2.25	
05 15 16 00-0026	LF	1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	18.39	1.84
		<i>For >500, Deduct</i>	-2.75	
05 15 16 00-0027		6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope ^(05 15 16)		
05 15 16 00-0028	LF	1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.37	0.11
		<i>For >500, Deduct</i>	-0.24	
05 15 16 00-0029	LF	5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.86	0.11
		<i>For >500, Deduct</i>	-0.31	
05 15 16 00-0030	LF	3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.22	0.22
		<i>For >500, Deduct</i>	-0.36	
05 15 16 00-0031	LF	7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.61	0.22
		<i>For >500, Deduct</i>	-0.41	
05 15 16 00-0032	LF	1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.15	0.32
		<i>For >500, Deduct</i>	-0.48	
05 15 16 00-0033	LF	9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.98	0.43
		<i>For >500, Deduct</i>	-0.60	
05 15 16 00-0034	LF	5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	4.66	0.43
		<i>For >500, Deduct</i>	-0.70	
05 15 16 00-0035	LF	3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	6.55	0.76
		<i>For >500, Deduct</i>	-0.97	
05 15 16 00-0036	LF	7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	8.04	0.87
		<i>For >500, Deduct</i>	-1.14	
05 15 16 00-0037	LF	1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	10.21	1.19
		<i>For >500, Deduct</i>	-1.43	
05 15 16 00-0038		6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope ^(05 15 16)		
05 15 16 00-0039	LF	1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.35	0.11
		<i>For >500, Deduct</i>	-0.23	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0040	LF		5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.79	0.11
			<i>For >500, Deduct</i>	-0.30	
05 15 16 00-0041	LF		3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.22	0.22
			<i>For >500, Deduct</i>	-0.36	
05 15 16 00-0042	LF		7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.61	0.22
			<i>For >500, Deduct</i>	-0.41	
05 15 16 00-0043	LF		1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.28	0.32
			<i>For >500, Deduct</i>	-0.51	
05 15 16 00-0044	LF		9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.92	0.43
			<i>For >500, Deduct</i>	-0.59	
05 15 16 00-0045	LF		5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.91	0.43
			<i>For >500, Deduct</i>	-0.75	
05 15 16 00-0046	LF		3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	6.85	0.76
			<i>For >500, Deduct</i>	-1.03	
05 15 16 00-0047	LF		7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.97	0.87
			<i>For >500, Deduct</i>	-1.33	
05 15 16 00-0048	LF		1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	11.07	1.19
			<i>For >500, Deduct</i>	-1.61	
05 15 16 00-0049			6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope ^(05 15 16)		
05 15 16 00-0050	LF		3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.50	0.22
			<i>For >500, Deduct</i>	-0.42	
05 15 16 00-0051	LF		7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.95	0.22
			<i>For >500, Deduct</i>	-0.47	
05 15 16 00-0052	LF		1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.45	0.32
			<i>For >500, Deduct</i>	-0.54	
05 15 16 00-0053	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	4.64	0.43
			<i>For >500, Deduct</i>	-0.74	
05 15 16 00-0054	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.13	0.43
			<i>For >500, Deduct</i>	-0.79	
05 15 16 00-0055	LF		3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	7.01	0.76
			<i>For >500, Deduct</i>	-1.06	
05 15 16 00-0056	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	9.00	0.87
			<i>For >500, Deduct</i>	-1.34	
05 15 16 00-0057	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	11.85	1.19
			<i>For >500, Deduct</i>	-1.76	
05 15 16 00-0058	LF		1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	14.36	1.52
			<i>For >500, Deduct</i>	-2.11	
05 15 16 00-0059	LF		1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	17.34	1.84
			<i>For >500, Deduct</i>	-2.54	
05 15 16 00-0060			6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope ^(05 15 16)		
05 15 16 00-0061	LF		3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.57	0.22
			<i>For >500, Deduct</i>	-0.43	
05 15 16 00-0062	LF		7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.12	0.22
			<i>For >500, Deduct</i>	-0.51	
05 15 16 00-0063	LF		1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.69	0.32
			<i>For >500, Deduct</i>	-0.59	
05 15 16 00-0064	LF		9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.15	0.43
			<i>For >500, Deduct</i>	-0.84	
05 15 16 00-0065	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.21	0.43
			<i>For >500, Deduct</i>	-0.81	
05 15 16 00-0066	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	7.18	0.76
			<i>For >500, Deduct</i>	-1.09	
05 15 16 00-0067	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	9.51	0.87
			<i>For >500, Deduct</i>	-1.44	
05 15 16 00-0068	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	12.02	1.19
			<i>For >500, Deduct</i>	-1.79	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0069 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope (05 15 16)		
05 15 16 00-0070 LF 1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....2.64	2.64	0.11
For >500, Deduct	-0.49	
05 15 16 00-0071 LF 5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....2.85	2.85	0.11
For >500, Deduct	-0.51	
05 15 16 00-0072 LF 3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....3.36	3.36	0.22
For >500, Deduct	-0.59	
05 15 16 00-0073 LF 7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....4.52	4.52	0.22
For >500, Deduct	-0.79	
05 15 16 00-0074 LF 1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....5.15	5.15	0.22
For >500, Deduct	-0.91	
05 15 16 00-0075 LF 9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....5.96	5.96	0.43
For >500, Deduct	-1.00	
05 15 16 00-0076 LF 5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....7.09	7.09	0.43
For >500, Deduct	-1.19	
05 15 16 00-0077 LF 3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....9.78	9.78	0.65
For >500, Deduct	-1.62	
05 15 16 00-0078 7x7, Galvanized Finish, Aircraft Cable (05 15 16)		
05 15 16 00-0079 LF 1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable .....0.30	0.30	0.08
For >500, Deduct	-0.04	
05 15 16 00-0080 LF 3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable .....0.35	0.35	0.09
For >500, Deduct	-0.04	
05 15 16 00-0081 LF 1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable .....0.40	0.40	0.10
For >500, Deduct	-0.05	
05 15 16 00-0082 LF 5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable .....0.45	0.45	0.11
For >500, Deduct	-0.06	
05 15 16 00-0083 LF 3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable .....0.56	0.56	0.11
For >500, Deduct	-0.07	
05 15 16 00-0084 7x19, Galvanized Finish, Aircraft Cable (05 15 16)		
05 15 16 00-0085 LF 1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....0.55	0.55	0.10
For >500, Deduct	-0.08	
05 15 16 00-0086 LF 5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....0.59	0.59	0.11
For >500, Deduct	-0.08	
05 15 16 00-0087 LF 3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....0.68	0.68	0.11
For >500, Deduct	-0.10	
05 15 16 00-0088 LF 1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....0.79	0.79	0.11
For >500, Deduct	-0.12	
05 15 16 00-0089 LF 5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....1.20	1.20	0.11
For >500, Deduct	-0.18	
05 15 16 00-0090 LF 3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....1.61	1.61	0.11
For >500, Deduct	-0.24	
05 15 16 00-0091 Heavy Duty, Galvanized Steel, Wire Rope Thimbles (05 15 16)		
05 15 16 00-0092 EA 1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....13.35	13.35	3.25
05 15 16 00-0093 EA 5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....14.90	14.90	3.25
05 15 16 00-0094 EA 3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....16.62	16.62	3.25
05 15 16 00-0095 EA 7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....21.34	21.34	3.25
05 15 16 00-0096 EA 1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....21.36	21.36	3.25
05 15 16 00-0097 EA 9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....21.36	21.36	3.25
05 15 16 00-0098 EA 5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....22.96	22.96	3.25
05 15 16 00-0099 EA 3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....41.43	41.43	4.99
05 15 16 00-0100 EA 7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....49.02	49.02	6.07
05 15 16 00-0101 EA 1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....86.76	86.76	9.97
05 15 16 00-0102 EA 1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....124.08	124.08	13.56
05 15 16 00-0103 EA 1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....124.08	124.08	13.56
05 15 16 00-0104 Galvanized Steel, Wire Rope Clips (05 15 16)		
05 15 16 00-0105 EA 1/8" Diameter, Galvanized Steel, Wire Rope Clip .....14.93	14.93	3.25
05 15 16 00-0106 EA 3/16" Diameter, Galvanized Steel, Wire Rope Clip .....15.19	15.19	3.25
05 15 16 00-0107 EA 1/4" Diameter, Galvanized Steel, Wire Rope Clip .....16.92	16.92	3.25
05 15 16 00-0108 EA 5/16" Diameter, Galvanized Steel, Wire Rope Clip .....17.19	17.19	3.25
05 15 16 00-0109 EA 3/8" Diameter, Galvanized Steel, Wire Rope Clip .....17.58	17.58	3.25
05 15 16 00-0110 EA 7/16" Diameter, Galvanized Steel, Wire Rope Clip .....21.30	21.30	3.25
05 15 16 00-0111 EA 1/2" Diameter, Galvanized Steel, Wire Rope Clip .....21.59	21.59	3.25
05 15 16 00-0112 EA 9/16" Diameter, Galvanized Steel, Wire Rope Clip .....24.36	24.36	3.25
05 15 16 00-0113 EA 5/8" Diameter, Galvanized Steel, Wire Rope Clip .....24.75	24.75	3.25



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0114	EA		3/4" Diameter, Galvanized Steel, Wire Rope Clip	34.32	4.34
05 15 16 00-0115	EA		7/8" Diameter, Galvanized Steel, Wire Rope Clip	51.77	6.51
05 15 16 00-0116	EA		1" Diameter, Galvanized Steel, Wire Rope Clip	56.36	6.51
05 15 16 00-0117	EA		1-1/8" Diameter, Galvanized Steel, Wire Rope Clip	66.95	8.67
05 15 16 00-0118	EA		1-1/4" Diameter, Galvanized Steel, Wire Rope Clip	97.36	13.02
05 15 16 00-0119 Steel, Open Swage Sockets (05 15 16)					
05 15 16 00-0120	EA		1/4" Diameter, Steel, Open Swage Socket	79.12	3.25
05 15 16 00-0121	EA		5/16" Diameter, Steel, Open Swage Socket	125.53	3.25
05 15 16 00-0122	EA		3/8" Diameter, Steel, Open Swage Socket	129.82	4.34
05 15 16 00-0123	EA		7/16" Diameter, Steel, Open Swage Socket	154.78	5.42
05 15 16 00-0124	EA		1/2" Diameter, Steel, Open Swage Socket	154.78	5.42
05 15 16 00-0125	EA		9/16" Diameter, Steel, Open Swage Socket	228.62	11.93
05 15 16 00-0126	EA		5/8" Diameter, Steel, Open Swage Socket	228.62	11.93
05 15 16 00-0127	EA		3/4" Diameter, Steel, Open Swage Socket	295.85	22.78
05 15 16 00-0128	EA		7/8" Diameter, Steel, Open Swage Socket	399.03	32.53
05 15 16 00-0129	EA		1" Diameter, Steel, Open Swage Socket	564.12	49.89
05 15 16 00-0130	EA		1-1/8" Diameter, Steel, Open Swage Socket	747.74	78.09
05 15 16 00-0131	EA		1-1/4" Diameter, Steel, Open Swage Socket	870.70	90.02
05 15 16 00-0132 Steel, Closed Swage Sockets (05 15 16)					
05 15 16 00-0133	EA		1/4" Diameter, Steel, Closed Swage Socket	63.93	3.25
05 15 16 00-0134	EA		5/16" Diameter, Steel, Closed Swage Socket	86.03	3.25
05 15 16 00-0135	EA		3/8" Diameter, Steel, Closed Swage Socket	86.03	3.25
05 15 16 00-0136	EA		7/16" Diameter, Steel, Closed Swage Socket	107.52	4.34
05 15 16 00-0137	EA		1/2" Diameter, Steel, Closed Swage Socket	108.71	4.34
05 15 16 00-0138	EA		9/16" Diameter, Steel, Closed Swage Socket	150.26	7.60
05 15 16 00-0139	EA		5/8" Diameter, Steel, Closed Swage Socket	155.42	8.67
05 15 16 00-0140	EA		3/4" Diameter, Steel, Closed Swage Socket	193.49	14.09
05 15 16 00-0141	EA		7/8" Diameter, Steel, Closed Swage Socket	251.52	20.60
05 15 16 00-0142	EA		1" Diameter, Steel, Closed Swage Socket	359.65	28.20
05 15 16 00-0143	EA		1-1/8" Diameter, Steel, Closed Swage Socket	447.56	39.04
05 15 16 00-0144	EA		1-1/4" Diameter, Steel, Closed Swage Socket	610.92	60.73
05 15 16 00-0145 Galvanized Steel, Open Spelter Sockets (05 15 16)					
05 15 16 00-0146	EA		1/4" Galvanized Steel, Open Spelter Socket	131.51	3.25
05 15 16 00-0147	EA		5/16" Galvanized Steel, Open Spelter Socket	135.33	3.25
05 15 16 00-0148	EA		3/8" Galvanized Steel, Open Spelter Socket	135.33	3.25
05 15 16 00-0149	EA		7/16" Galvanized Steel, Open Spelter Socket	152.42	6.51
05 15 16 00-0150	EA		1/2" Galvanized Steel, Open Spelter Socket	152.42	6.51
05 15 16 00-0151	EA		9/16" Galvanized Steel, Open Spelter Socket	201.29	10.84
05 15 16 00-0152	EA		5/8" Galvanized Steel, Open Spelter Socket	201.29	10.84
05 15 16 00-0153	EA		3/4" Galvanized Steel, Open Spelter Socket	256.33	16.27
05 15 16 00-0154	EA		7/8" Galvanized Steel, Open Spelter Socket	384.83	27.11
05 15 16 00-0155	EA		1" Galvanized Steel, Open Spelter Socket	695.85	42.29
05 15 16 00-0156	EA		1-1/8" Galvanized Steel, Open Spelter Socket	827.88	68.33
05 15 16 00-0157	EA		1-1/4" Galvanized Steel, Open Spelter Socket	1,118.37	90.02
05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets (05 15 16)					
05 15 16 00-0159	EA		1/4" Galvanized Steel, Closed Spelter Socket	110.49	3.25
05 15 16 00-0160	EA		5/16" Galvanized Steel, Closed Spelter Socket	110.97	3.25
05 15 16 00-0161	EA		3/8" Galvanized Steel, Closed Spelter Socket	110.97	3.25
05 15 16 00-0162	EA		7/16" Galvanized Steel, Closed Spelter Socket	125.32	5.42
05 15 16 00-0163	EA		1/2" Galvanized Steel, Closed Spelter Socket	125.32	5.42
05 15 16 00-0164	EA		9/16" Galvanized Steel, Closed Spelter Socket	176.67	9.76
05 15 16 00-0165	EA		5/8" Galvanized Steel, Closed Spelter Socket	176.67	9.76
05 15 16 00-0166	EA		3/4" Galvanized Steel, Closed Spelter Socket	218.16	14.09
05 15 16 00-0167	EA		7/8" Galvanized Steel, Closed Spelter Socket	318.97	21.69
05 15 16 00-0168	EA		1" Galvanized Steel, Closed Spelter Socket	482.29	33.62
05 15 16 00-0169	EA		1-1/8" Galvanized Steel, Closed Spelter Socket	631.80	45.55
05 15 16 00-0170	EA		1-1/4" Galvanized Steel, Closed Spelter Socket	797.76	60.73
05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)					
05 15 16 00-0172	EA		1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle	76.42	3.25
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	<i>-9.84</i>	
05 15 16 00-0173	EA		5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle	81.88	3.25
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	<i>-10.66</i>	
05 15 16 00-0174	EA		3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle	91.98	3.25
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	<i>-12.17</i>	
05 15 16 00-0175	EA		1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle	102.64	4.34
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	<i>-12.66</i>	
05 15 16 00-0176	EA		1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle	134.93	5.42
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	<i>-16.85</i>	
05 15 16 00-0177	EA		1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle	153.33	6.51
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	<i>-19.08</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0178 EA 5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	156.81 -18.52	8.67
05 15 16 00-0179 EA 5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	193.47 -23.60	8.67
05 15 16 00-0180 EA 5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	219.43 -27.10	9.76
05 15 16 00-0181 EA 3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	211.58 -24.81	11.93
05 15 16 00-0182 EA 3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	241.34 -27.64	14.09
05 15 16 00-0183 EA 3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	297.16 -35.28	15.18
05 15 16 00-0184 EA 3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	357.52 -42.41	18.44
05 15 16 00-0185 EA 7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	408.80 -45.83	26.03
05 15 16 00-0186 EA 7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	495.35 -56.23	30.37
05 15 16 00-0187 EA 1" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	424.26 -48.15	26.03
05 15 16 00-0188 EA 1" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	487.23 -52.75	33.62
05 15 16 00-0189 EA 1" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	666.13 -74.89	42.29
05 15 16 00-0190 EA 1" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	745.99 -82.32	49.89
05 15 16 00-0191 EA 1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	833.43 -88.86	60.73
05 15 16 00-0192 EA 1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,004.22 -109.96	68.33
05 15 16 00-0193 EA 1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,296.55 -148.00	78.09
05 15 16 00-0194 EA 1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,284.71 -142.65	83.51
05 15 16 00-0195 EA 1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,420.50 -148.00	108.45
05 15 16 00-0196 EA 1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	2,533.49 -298.68	140.98
05 15 16 00-0197 EA 2" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	4,175.36 -463.63	271.13
05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)		
05 15 16 00-0199 EA 1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	16.99	
05 15 16 00-0200 EA 5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	17.06	
05 15 16 00-0201 EA 3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	19.11	
05 15 16 00-0202 EA 7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	22.78	
05 15 16 00-0203 EA 1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	22.68	
05 15 16 00-0204 EA 5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	30.77	
05 15 16 00-0205 EA 3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	36.73	
05 15 16 00-0206 EA 7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	49.36	
05 15 16 00-0207 EA 1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	65.79	
05 15 16 00-0208 EA 1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	95.33	
05 15 16 00-0209 EA 1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	113.30	
05 15 16 00-0210 EA 1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	204.85	
05 15 16 00-0211 EA 1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	234.84	
05 15 16 00-0212 EA 2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	290.16	
05 15 16 00-0213 Galvanized Steel, Drop Forged, Eye Bolts (05 15 16)		
05 15 16 00-0214 EA 1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	22.09	
05 15 16 00-0215 EA 1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.04	
05 15 16 00-0216 EA 5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	26.84	
05 15 16 00-0217 EA 5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	18.33	
05 15 16 00-0218 EA 3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	24.40	
05 15 16 00-0219 EA 3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	36.33	
05 15 16 00-0220 EA 3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	35.27	
05 15 16 00-0221 EA 3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	33.56	
05 15 16 00-0222 EA 3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	30.18	
05 15 16 00-0223 EA 3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	31.16	
05 15 16 00-0224 EA 1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	27.70	
05 15 16 00-0225 EA 1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	22.31	
05 15 16 00-0226 EA 1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	28.75	
05 15 16 00-0227 EA 1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	38.92	
05 15 16 00-0228 EA 1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	29.81	
05 15 16 00-0229 EA 1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	47.35	
05 15 16 00-0230 EA 1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	41.83	
05 15 16 00-0231 EA 1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	38.29	
05 15 16 00-0232 EA 1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	44.85	
05 15 16 00-0233 EA 5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	45.54	
05 15 16 00-0234 EA 5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	40.68	
05 15 16 00-0235 EA 5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	50.91	



Metals	05	05
Structural Metal Framing	05 10	
Wire Rope Assemblies	05 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0236 EA 5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	58.21	
05 15 16 00-0237 EA 5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	66.97	
05 15 16 00-0238 EA 5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	55.54	
05 15 16 00-0239 EA 3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	55.44	
05 15 16 00-0240 EA 3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	56.55	
05 15 16 00-0241 EA 3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	62.41	
05 15 16 00-0242 EA 3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	67.24	
05 15 16 00-0243 EA 3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	78.37	
05 15 16 00-0244 EA 1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	103.48	

05 15 19 Stainless Steel Wire Rope Assemblies (05 15)

05 15 19 00-0001 7x7, 304 Stainless Steel, Aircraft Cable (05 15 19)		
05 15 19 00-0002 LF 1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.26	0.08
For >500, Deduct	-0.03	
05 15 19 00-0003 LF 3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.34	0.09
For >500, Deduct	-0.04	
05 15 19 00-0004 LF 1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.44	0.10
For >500, Deduct	-0.06	
05 15 19 00-0005 LF 5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.56	0.11
For >500, Deduct	-0.08	
05 15 19 00-0006 LF 3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.71	0.11
For >500, Deduct	-0.10	

05 15 19 00-0007 7x19, 304 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0008 LF 1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.50	0.10
For >500, Deduct	-0.07	
05 15 19 00-0009 LF 5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.57	0.11
For >500, Deduct	-0.08	
05 15 19 00-0010 LF 3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.67	0.11
For >500, Deduct	-0.09	
05 15 19 00-0011 LF 1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.84	0.11
For >500, Deduct	-0.13	
05 15 19 00-0012 LF 5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	1.28	0.11
For >500, Deduct	-0.20	
05 15 19 00-0013 LF 3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	1.91	0.22
For >500, Deduct	-0.30	

05 15 19 00-0014 7x7, 316 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0015 LF 1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.26	0.08
For >500, Deduct	-0.03	
05 15 19 00-0016 LF 3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.34	0.09
For >500, Deduct	-0.04	
05 15 19 00-0017 LF 1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.44	0.10
For >500, Deduct	-0.06	
05 15 19 00-0018 LF 5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.56	0.11
For >500, Deduct	-0.08	
05 15 19 00-0019 LF 3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.71	0.11
For >500, Deduct	-0.10	

05 15 19 00-0020 7x19, 316 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0021 LF 1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.50	0.10
For >500, Deduct	-0.07	
05 15 19 00-0022 LF 5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.57	0.11
For >500, Deduct	-0.08	
05 15 19 00-0023 LF 3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.67	0.11
For >500, Deduct	-0.09	
05 15 19 00-0024 LF 1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.84	0.11
For >500, Deduct	-0.13	
05 15 19 00-0025 LF 5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	1.28	0.11
For >500, Deduct	-0.20	
05 15 19 00-0026 LF 3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	1.91	0.11
For >500, Deduct	-0.30	

05 20 Metal Joists (05)

Note: Includes all connecting bolts and welds.

05 21 Steel Joist Framing (05 21)

05 21 19 Open Web Steel Joist Framing (05 21)

05 21 19 00-0001 TON H, J Or K Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging	2,642.21	186.90
For Welded Cross Bridging, Add	233.63	
For Shop Prime Paint Other Than Manufacturer's Standard, Add	223.61	
05 21 19 00-0002 TON H, J Or K Open Web Joist, >30' To 50' Span, Steel, Horizontal Bridging	2,422.58	175.22
For Welded Cross Bridging, Add	207.67	
For Shop Prime Paint Other Than Manufacturer's Standard, Add	207.64	

05	Metals
05 20	Metal Joists
05 21	Steel Joist Framing



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 21 19 00-0003	TON LJ Or LH Open Web Joist, Up To 96' Span, Steel, Bolted Cross Bridging..... <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	2,911.81 215.66 263.15	175.22
05 21 19 00-0004	TON DLJ Or DLH Open Web Joist, Up To 144' Span, Steel, Bolted Cross Bridging <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	3,301.67 215.66 309.94	175.22
05 21 19 00-0005	TON CS Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	2,922.98 233.63 257.31	175.22
05 21 19 00-0006	TON SLH Open Web Joist, Up To 200' Span, Steel, Bolted Cross Bridging <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	3,642.79 215.66 350.87	175.22

05 30 Metal Decking ⁽⁰⁵⁾

Note: Includes all connecting bolts and welds.

05 31 Steel Decking ^(05 30)

See CSI section 03 30 00 00-0000 for concrete where required.

05 31 13 Steel Floor Decking ^(05 31)

Note: Floor or roof decking

05 31 13 00-0001 Open Ribbed Galvanized Steel Deck ^(05 31 13)

05 31 13 00-0002	SF 1" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.15 -0.13 0.13 0.83 0.86 0.50 0.15	0.49
05 31 13 00-0003	SF 1" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.58 -0.14 0.14 0.95 1.00 0.57 0.18	0.57
05 31 13 00-0004	SF 1" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	4.51 -0.18 0.18 1.19 1.23 0.71 0.22	0.69
05 31 13 00-0005	SF 1-1/2" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.46 -0.14 0.14 0.92 0.97 0.55 0.17	0.55
05 31 13 00-0006	SF 1-1/2" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.98 -0.16 0.16 1.05 1.11 0.64 0.20	0.63
05 31 13 00-0007	SF 1-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	5.00 -0.20 0.20 1.32 1.37 0.79 0.24	0.77
05 31 13 00-0008	SF 2" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.91 -0.16 0.16 1.03 1.04 0.61 0.18	0.58
05 31 13 00-0009	SF 2" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	4.55 -0.19 0.19 1.20 1.21 0.71 0.21	0.67



Metals	05	05
Metal Decking	05 30	
Steel Decking	05 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0010 SF 2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	5.60	0.75
For Painted, Deduct	-0.23	
For Perforated Or Slotted, Add	0.23	
For Site Installed Insulation Between Ribs, Add	1.47	
For Up To 100, Add	1.41	
For >100 To 500, Add	0.84	
For >500 To 1,500, Add	0.24	
05 31 13 00-0011 SF 2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	7.04	0.82
For Painted, Deduct	-0.30	
For Perforated Or Slotted, Add	0.30	
For Site Installed Insulation Between Ribs, Add	1.84	
For Up To 100, Add	1.62	
For >100 To 500, Add	1.01	
For >500 To 1,500, Add	0.26	
05 31 13 00-0012 SF 3" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....	4.37	0.61
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Site Installed Insulation Between Ribs, Add	1.15	
For Up To 100, Add	1.12	
For >100 To 500, Add	0.67	
For >500 To 1,500, Add	0.19	
05 31 13 00-0013 SF 3" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	5.11	0.69
For Painted, Deduct	-0.21	
For Perforated Or Slotted, Add	0.21	
For Site Installed Insulation Between Ribs, Add	1.34	
For Up To 100, Add	1.29	
For >100 To 500, Add	0.77	
For >500 To 1,500, Add	0.22	
05 31 13 00-0014 SF 3" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	6.36	0.86
For Painted, Deduct	-0.26	
For Perforated Or Slotted, Add	0.26	
For Site Installed Insulation Between Ribs, Add	1.67	
For Up To 100, Add	1.60	
For >100 To 500, Add	0.96	
For >500 To 1,500, Add	0.27	
05 31 13 00-0015 SF 3" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	8.01	1.04
For Painted, Deduct	-0.34	
For Perforated Or Slotted, Add	0.34	
For Site Installed Insulation Between Ribs, Add	2.10	
For Up To 100, Add	1.97	
For >100 To 500, Add	1.19	
For >500 To 1,500, Add	0.33	
05 31 13 00-0016 SF 4-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	11.60	
For Painted, Deduct	-0.53	
For Perforated Or Slotted, Add	0.53	
For Site Installed Insulation Between Ribs, Add	2.97	
For Up To 100, Add	2.01	
For >100 To 500, Add	1.44	
For >500 To 1,500, Add	0.24	
05 31 13 00-0017 SF 4-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	14.63	0.86
For Painted, Deduct	-0.68	
For Perforated Or Slotted, Add	0.68	
For Site Installed Insulation Between Ribs, Add	3.74	
For Up To 100, Add	2.43	
For >100 To 500, Add	1.78	
For >500 To 1,500, Add	0.27	
05 31 13 00-0018 SF 6" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	13.58	0.86
For Painted, Deduct	-0.63	
For Perforated Or Slotted, Add	0.63	
For Site Installed Insulation Between Ribs, Add	3.47	
For Up To 100, Add	2.32	
For >100 To 500, Add	1.68	
For >500 To 1,500, Add	0.27	
05 31 13 00-0019 SF 6" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	14.24	1.04
For Painted, Deduct	-0.65	
For Perforated Or Slotted, Add	0.65	
For Site Installed Insulation Between Ribs, Add	3.66	
For Up To 100, Add	2.59	
For >100 To 500, Add	1.81	
For >500 To 1,500, Add	0.33	
05 31 13 00-0020 SF 6" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	17.79	1.26
For Painted, Deduct	-0.81	
For Perforated Or Slotted, Add	0.81	
For Site Installed Insulation Between Ribs, Add	4.56	
For Up To 100, Add	3.21	
For >100 To 500, Add	2.26	
For >500 To 1,500, Add	0.40	
05 31 13 00-0021 SF 7-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	15.74	1.14
For Painted, Deduct	-0.72	
For Perforated Or Slotted, Add	0.72	
For Site Installed Insulation Between Ribs, Add	4.04	
For Up To 100, Add	2.86	
For >100 To 500, Add	2.00	
For >500 To 1,500, Add	0.36	

05	05	Metals
	05 30	Metal Decking
	05 31	Steel Decking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0022 SF 7-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	19.62	1.39
For Painted, Deduct	-0.89	
For Perforated Or Slotted, Add	0.89	
For Site Installed Insulation Between Ribs, Add	5.03	
For Up To 100, Add	3.53	
For >100 To 500, Add	2.48	
For >500 To 1,500, Add	0.44	
 05 31 13 00-0023 Cellular Galvanized Steel Deck <small>(05 31 13)</small>		
Note: Cellular decking is made of a top ribbed sheet and a flat bottom sheet welded together to create hollow longitudinal cells within the panels.		
05 31 13 00-0024 SF 1" Deep, 22/18 Gauge Cellular Galvanized Steel Deck.....	10.40	0.88
For Painted, Deduct	-0.47	
For Perforated Or Slotted, Add	0.47	
For Insulated Cells, Add	2.09	
For Site Installed Insulation Between Ribs, Add	2.68	
For Up To 100, Add	2.03	
For >100 To 500, Add	1.37	
For >500 To 1,500, Add	0.28	
05 31 13 00-0025 SF 1" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	11.31	1.16
For Painted, Deduct	-0.49	
For Perforated Or Slotted, Add	0.49	
For Insulated Cells, Add	2.22	
For Site Installed Insulation Between Ribs, Add	2.93	
For Up To 100, Add	2.45	
For >100 To 500, Add	1.57	
For >500 To 1,500, Add	0.37	
05 31 13 00-0026 SF 1-1/2" Deep, 22/18 Gauge Cellular Galvanized Steel Deck.....	12.77	0.92
For Painted, Deduct	-0.58	
For Perforated Or Slotted, Add	0.58	
For Insulated Cells, Add	2.61	
For Site Installed Insulation Between Ribs, Add	3.28	
For Up To 100, Add	2.31	
For >100 To 500, Add	1.62	
For >500 To 1,500, Add	0.29	
05 31 13 00-0027 SF 1-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	13.82	1.22
For Painted, Deduct	-0.61	
For Perforated Or Slotted, Add	0.61	
For Insulated Cells, Add	2.77	
For Site Installed Insulation Between Ribs, Add	3.57	
For Up To 100, Add	2.76	
For >100 To 500, Add	1.84	
For >500 To 1,500, Add	0.38	
05 31 13 00-0028 SF 3" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....	14.62	1.12
For Painted, Deduct	-0.66	
For Perforated Or Slotted, Add	0.66	
For Insulated Cells, Add	2.98	
For Site Installed Insulation Between Ribs, Add	3.76	
For Up To 100, Add	2.70	
For >100 To 500, Add	1.88	
For >500 To 1,500, Add	0.35	
05 31 13 00-0029 SF 3" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	17.48	1.28
For Painted, Deduct	-0.79	
For Perforated Or Slotted, Add	0.79	
For Insulated Cells, Add	3.57	
For Site Installed Insulation Between Ribs, Add	4.49	
For Up To 100, Add	3.20	
For >100 To 500, Add	2.23	
For >500 To 1,500, Add	0.40	
05 31 13 00-0030 SF 3" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....	19.61	1.39
For Painted, Deduct	-0.89	
For Perforated Or Slotted, Add	0.89	
For Insulated Cells, Add	4.02	
For Site Installed Insulation Between Ribs, Add	5.03	
For Up To 100, Add	3.53	
For >100 To 500, Add	2.48	
For >500 To 1,500, Add	0.44	
05 31 13 00-0031 SF 3" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....	21.18	1.49
For Painted, Deduct	-0.97	
For Perforated Or Slotted, Add	0.97	
For Insulated Cells, Add	4.35	
For Site Installed Insulation Between Ribs, Add	5.43	
For Up To 100, Add	3.79	
For >100 To 500, Add	2.68	
For >500 To 1,500, Add	0.47	
05 31 13 00-0032 SF 4-1/2" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....	22.70	1.12
For Painted, Deduct	-1.06	
For Perforated Or Slotted, Add	1.06	
For Insulated Cells, Add	4.79	
For Site Installed Insulation Between Ribs, Add	5.78	
For Up To 100, Add	3.54	
For >100 To 500, Add	2.69	
For >500 To 1,500, Add	0.35	



	Metals	05
	Metal Decking	05 30
	Steel Decking	05 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0033	SF		4-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	24.13	1.30
			<i>For Painted, Deduct</i>	-1.12	
			<i>For Perforated Or Slotted, Add</i>	1.12	
			<i>For Insulated Cells, Add</i>	5.06	
			<i>For Site Installed Insulation Between Ribs, Add</i>	6.15	
			<i>For Up To 100, Add</i>	3.89	
			<i>For >100 To 500, Add</i>	2.91	
			<i>For >500 To 1,500, Add</i>	0.41	
05 31 13 00-0034	SF		4-1/2" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....	25.50	1.41
			<i>For Painted, Deduct</i>	-1.19	
			<i>For Perforated Or Slotted, Add</i>	1.19	
			<i>For Insulated Cells, Add</i>	5.34	
			<i>For Site Installed Insulation Between Ribs, Add</i>	6.51	
			<i>For Up To 100, Add</i>	4.13	
			<i>For >100 To 500, Add</i>	3.08	
			<i>For >500 To 1,500, Add</i>	0.44	
05 31 13 00-0035	SF		4-1/2" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....	27.20	1.51
			<i>For Painted, Deduct</i>	-1.27	
			<i>For Perforated Or Slotted, Add</i>	1.27	
			<i>For Insulated Cells, Add</i>	5.69	
			<i>For Site Installed Insulation Between Ribs, Add</i>	6.94	
			<i>For Up To 100, Add</i>	4.42	
			<i>For >100 To 500, Add</i>	3.29	
			<i>For >500 To 1,500, Add</i>	0.47	
05 31 23			Steel Roof Decking (05 31)		
			See CSI section 05 31 13 00-0000 for Steel floor or roof decking.		
05 31 33			Steel Form Decking (05 31)		
05 31 33 00-0001			Open Ribbed Galvanized Steel Form Deck (05 31 33)		
05 31 33 00-0002	SF		9/16" Deep, 28 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.84	
			<i>For Painted, Deduct</i>	-0.10	
			<i>For Perforated Or Slotted, Add</i>	0.10	
			<i>For Up To 100, Add</i>	1.11	
			<i>For >100 To 500, Add</i>	0.56	
			<i>For >500 To 1,500, Add</i>	0.23	
05 31 33 00-0003	SF		9/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.02	
			<i>For Painted, Deduct</i>	-0.10	
			<i>For Perforated Or Slotted, Add</i>	0.10	
			<i>For Up To 100, Add</i>	1.18	
			<i>For >100 To 500, Add</i>	0.59	
			<i>For >500 To 1,500, Add</i>	0.24	
05 31 33 00-0004	SF		9/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.34	
			<i>For Painted, Deduct</i>	-0.11	
			<i>For Perforated Or Slotted, Add</i>	0.11	
			<i>For Up To 100, Add</i>	1.34	
			<i>For >100 To 500, Add</i>	0.67	
			<i>For >500 To 1,500, Add</i>	0.28	
05 31 33 00-0005	SF		9/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.61	
			<i>For Painted, Deduct</i>	-0.12	
			<i>For Perforated Or Slotted, Add</i>	0.12	
			<i>For Up To 100, Add</i>	1.50	
			<i>For >100 To 500, Add</i>	0.74	
			<i>For >500 To 1,500, Add</i>	0.32	
05 31 33 00-0006	SF		15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.42	
			<i>For Painted, Deduct</i>	-0.12	
			<i>For Perforated Or Slotted, Add</i>	0.12	
			<i>For Up To 100, Add</i>	1.22	
			<i>For >100 To 500, Add</i>	0.63	
			<i>For >500 To 1,500, Add</i>	0.24	
05 31 33 00-0007	SF		15/16" Deep, 25 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.59	
			<i>For Painted, Deduct</i>	-0.13	
			<i>For Perforated Or Slotted, Add</i>	0.13	
			<i>For Up To 100, Add</i>	1.28	
			<i>For >100 To 500, Add</i>	0.67	
			<i>For >500 To 1,500, Add</i>	0.26	
05 31 33 00-0008	SF		15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.78	
			<i>For Painted, Deduct</i>	-0.13	
			<i>For Perforated Or Slotted, Add</i>	0.13	
			<i>For Up To 100, Add</i>	1.39	
			<i>For >100 To 500, Add</i>	0.71	
			<i>For >500 To 1,500, Add</i>	0.28	
05 31 33 00-0009	SF		15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	4.03	
			<i>For Painted, Deduct</i>	-0.14	
			<i>For Perforated Or Slotted, Add</i>	0.14	
			<i>For Up To 100, Add</i>	1.55	
			<i>For >100 To 500, Add</i>	0.78	
			<i>For >500 To 1,500, Add</i>	0.32	
05 31 33 00-0010	SF		1-15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	4.25	
			<i>For Painted, Deduct</i>	-0.15	
			<i>For Perforated Or Slotted, Add</i>	0.15	
			<i>For Up To 100, Add</i>	1.61	
			<i>For >100 To 500, Add</i>	0.82	
			<i>For >500 To 1,500, Add</i>	0.33	

05	05 Metals
	05 30 Metal Decking
	05 31 Steel Decking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 33 00-0011 SF 1-15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	4.64	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Up To 100, Add	1.71	
For >100 To 500, Add	0.88	
For >500 To 1,500, Add	0.35	
05 31 33 00-0012 SF 1-15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	5.33	
For Painted, Deduct	-0.19	
For Perforated Or Slotted, Add	0.19	
For Up To 100, Add	1.87	
For >100 To 500, Add	0.98	
For >500 To 1,500, Add	0.37	
05 31 33 00-0013 SF 1-15/16" Deep, 20 Gauge Open Ribbed Galvanized Steel Form Deck.....	5.91	
For Painted, Deduct	-0.21	
For Perforated Or Slotted, Add	0.21	
For Up To 100, Add	2.11	
For >100 To 500, Add	1.10	
For >500 To 1,500, Add	0.42	

05 36 Composite Metal Decking (05 36)

See CSI section 03 30 00 00-0000 for concrete.

05 36 00 00-0001 Composite Open Ribbed Galvanized Steel Deck (05 36)

Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab.

05 36 00 00-0002 SF 1-1/2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.29	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Up To 100, Add	1.62	
For >100 To 500, Add	0.83	
For >500 To 1,500, Add	0.33	
05 36 00 00-0003 SF 1-1/2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.59	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Up To 100, Add	1.79	
For >100 To 500, Add	0.90	
For >500 To 1,500, Add	0.37	
05 36 00 00-0004 SF 1-1/2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.13	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Up To 100, Add	2.17	
For >100 To 500, Add	1.07	
For >500 To 1,500, Add	0.46	
05 36 00 00-0005 SF 1-1/2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.60	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Up To 100, Add	2.54	
For >100 To 500, Add	1.22	
For >500 To 1,500, Add	0.55	
05 36 00 00-0006 SF 2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.59	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Up To 100, Add	1.79	
For >100 To 500, Add	0.90	
For >500 To 1,500, Add	0.37	
05 36 00 00-0007 SF 2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.97	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Up To 100, Add	1.97	
For >100 To 500, Add	0.99	
For >500 To 1,500, Add	0.41	
05 36 00 00-0008 SF 2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.51	
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Up To 100, Add	2.35	
For >100 To 500, Add	1.15	
For >500 To 1,500, Add	0.50	
05 36 00 00-0009 SF 2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	6.00	
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Up To 100, Add	2.72	
For >100 To 500, Add	1.31	
For >500 To 1,500, Add	0.59	
05 36 00 00-0010 SF 3" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.82	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Up To 100, Add	1.86	
For >100 To 500, Add	0.94	
For >500 To 1,500, Add	0.38	
05 36 00 00-0011 SF 3" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.17	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Up To 100, Add	2.08	
For >100 To 500, Add	1.04	
For >500 To 1,500, Add	0.44	



Metals	05	05
Metal Decking	05 30	
Composite Metal Decking	05 36	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0012 SF 3" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.80	
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Up To 100, Add	2.52	
For >100 To 500, Add	1.23	
For >500 To 1,500, Add	0.54	
05 36 00 00-0013 SF 3" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	6.46	
For Painted, Deduct	-0.20	
For Perforated Or Slotted, Add	0.20	
For Up To 100, Add	2.95	
For >100 To 500, Add	1.41	
For >500 To 1,500, Add	0.64	
05 36 00 00-0014 Composite Cellular Galvanized Steel Deck <small>(05 36)</small>		
Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab. Cellular decking is made of a top ribbed sheet and a bottom flat sheet welded together to create hollow longitudinal cells within the panels.		
05 36 00 00-0015 SF 1-1/2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	7.87	
For Painted, Deduct	-0.27	
For Perforated Or Slotted, Add	0.27	
For Insulated Cells, Add	1.23	
For Up To 100, Add	2.95	
For >100 To 500, Add	1.51	
For >500 To 1,500, Add	0.60	
05 36 00 00-0016 SF 1-1/2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.42	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Insulated Cells, Add	1.30	
For Up To 100, Add	3.24	
For >100 To 500, Add	1.64	
For >500 To 1,500, Add	0.67	
05 36 00 00-0017 SF 1-1/2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	8.52	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Insulated Cells, Add	1.30	
For Up To 100, Add	3.34	
For >100 To 500, Add	1.68	
For >500 To 1,500, Add	0.69	
05 36 00 00-0018 SF 1-1/2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	9.04	
For Painted, Deduct	-0.30	
For Perforated Or Slotted, Add	0.30	
For Insulated Cells, Add	1.34	
For Up To 100, Add	3.67	
For >100 To 500, Add	1.83	
For >500 To 1,500, Add	0.77	
05 36 00 00-0019 SF 1-1/2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	9.69	
For Painted, Deduct	-0.32	
For Perforated Or Slotted, Add	0.32	
For Insulated Cells, Add	1.43	
For Up To 100, Add	3.96	
For >100 To 500, Add	1.97	
For >500 To 1,500, Add	0.83	
05 36 00 00-0020 SF 1-1/2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	9.79	
For Painted, Deduct	-0.32	
For Perforated Or Slotted, Add	0.32	
For Insulated Cells, Add	1.43	
For Up To 100, Add	4.06	
For >100 To 500, Add	2.01	
For >500 To 1,500, Add	0.86	
05 36 00 00-0021 SF 1-1/2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	10.31	
For Painted, Deduct	-0.33	
For Perforated Or Slotted, Add	0.33	
For Insulated Cells, Add	1.48	
For Up To 100, Add	4.39	
For >100 To 500, Add	2.15	
For >500 To 1,500, Add	0.93	
05 36 00 00-0022 SF 2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	8.14	
For Painted, Deduct	-0.28	
For Perforated Or Slotted, Add	0.28	
For Insulated Cells, Add	1.26	
For Up To 100, Add	3.12	
For >100 To 500, Add	1.58	
For >500 To 1,500, Add	0.64	
05 36 00 00-0023 SF 2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.59	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Insulated Cells, Add	1.31	
For Up To 100, Add	3.34	
For >100 To 500, Add	1.69	
For >500 To 1,500, Add	0.69	

05 Metals**05 30 Metal Decking****05 36 Composite Metal Decking**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0024 SF 2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	8.69	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Insulated Cells, Add	1.31	
For Up To 100, Add	3.44	
For >100 To 500, Add	1.73	
For >500 To 1,500, Add	0.72	
05 36 00 00-0025 SF 2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	9.32	
For Painted, Deduct	-0.31	
For Perforated Or Slotted, Add	0.31	
For Insulated Cells, Add	1.38	
For Up To 100, Add	3.79	
For >100 To 500, Add	1.88	
For >500 To 1,500, Add	0.79	
05 36 00 00-0026 SF 2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	9.86	
For Painted, Deduct	-0.32	
For Perforated Or Slotted, Add	0.32	
For Insulated Cells, Add	1.45	
For Up To 100, Add	4.06	
For >100 To 500, Add	2.01	
For >500 To 1,500, Add	0.86	
05 36 00 00-0027 SF 2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	10.02	
For Painted, Deduct	-0.32	
For Perforated Or Slotted, Add	0.32	
For Insulated Cells, Add	1.45	
For Up To 100, Add	4.22	
For >100 To 500, Add	2.08	
For >500 To 1,500, Add	0.90	
05 36 00 00-0028 SF 2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	10.56	
For Painted, Deduct	-0.34	
For Perforated Or Slotted, Add	0.34	
For Insulated Cells, Add	1.51	
For Up To 100, Add	4.50	
For >100 To 500, Add	2.21	
For >500 To 1,500, Add	0.96	
05 36 00 00-0029 SF 3" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	8.18	
For Painted, Deduct	-0.28	
For Perforated Or Slotted, Add	0.28	
For Insulated Cells, Add	1.26	
For Up To 100, Add	3.12	
For >100 To 500, Add	1.59	
For >500 To 1,500, Add	0.64	
05 36 00 00-0030 SF 3" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.64	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Insulated Cells, Add	1.31	
For Up To 100, Add	3.39	
For >100 To 500, Add	1.71	
For >500 To 1,500, Add	0.70	
05 36 00 00-0031 SF 3" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	8.79	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Insulated Cells, Add	1.31	
For Up To 100, Add	3.54	
For >100 To 500, Add	1.77	
For >500 To 1,500, Add	0.74	
05 36 00 00-0032 SF 3" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	9.41	
For Painted, Deduct	-0.31	
For Perforated Or Slotted, Add	0.31	
For Insulated Cells, Add	1.39	
For Up To 100, Add	3.84	
For >100 To 500, Add	1.91	
For >500 To 1,500, Add	0.81	
05 36 00 00-0033 SF 3" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	10.02	
For Painted, Deduct	-0.33	
For Perforated Or Slotted, Add	0.33	
For Insulated Cells, Add	1.47	
For Up To 100, Add	4.13	
For >100 To 500, Add	2.04	
For >500 To 1,500, Add	0.87	
05 36 00 00-0034 SF 3" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	10.23	
For Painted, Deduct	-0.33	
For Perforated Or Slotted, Add	0.33	
For Insulated Cells, Add	1.47	
For Up To 100, Add	4.34	
For >100 To 500, Add	2.13	
For >500 To 1,500, Add	0.92	
05 36 00 00-0035 SF 3" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	10.66	
For Painted, Deduct	-0.34	
For Perforated Or Slotted, Add	0.34	
For Insulated Cells, Add	1.51	
For Up To 100, Add	4.60	
For >100 To 500, Add	2.25	
For >500 To 1,500, Add	0.98	

05 36 00 00-0036 Non-Cellular, Composite Deck, Galvanized (05 36)



	Metals	05
	Metal Decking	05 30
	Composite Metal Decking	05 36

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0037	SF		1" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular	6.07	
05 36 00 00-0038	SF		1" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular	4.99	
05 36 00 00-0039	SF		1" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular	4.14	
05 36 00 00-0040	SF		1" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular	3.56	
05 36 00 00-0041	SF		1-1/2" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular	6.69	
05 36 00 00-0042	SF		1-1/2" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular	5.44	
05 36 00 00-0043	SF		1-1/2" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular	4.50	
05 36 00 00-0044	SF		1-1/2" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular	3.88	
05 36 00 00-0045	SF		3" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular	7.71	
05 36 00 00-0046	SF		3" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular	6.16	
05 36 00 00-0047	SF		3" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular	5.16	
05 36 00 00-0048	SF		3" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular	4.66	

05 40 Cold-Formed Metal Framing ⁽⁰⁵⁾

Note: Includes all connecting bolts and welds.

05 41 Structural Metal Stud Framing ^(05 40)

Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.

05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ^(05 41)

05 41 00 00-0002	SF	2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	5.09	1.02
		<i>For Walls >10' High, Add</i>	1.02	
		<i>For Curved Wall, Add</i>	0.71	
		<i>For Up To 200, Add</i>	1.49	
		<i>For >200 To 500, Add</i>	0.75	
		<i>For 12" On Center, Add</i>	0.90	
		<i>For 24" On Center, Deduct</i>	-0.90	
05 41 00 00-0003	SF	3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	5.68	1.02
		<i>For Walls >10' High, Add</i>	1.14	
		<i>For Curved Wall, Add</i>	0.75	
		<i>For Up To 200, Add</i>	1.64	
		<i>For >200 To 500, Add</i>	0.82	
		<i>For 12" On Center, Add</i>	1.01	
		<i>For 24" On Center, Deduct</i>	-1.01	
05 41 00 00-0004	SF	4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	5.92	1.02
		<i>For Walls >10' High, Add</i>	1.18	
		<i>For Curved Wall, Add</i>	0.78	
		<i>For Up To 200, Add</i>	1.70	
		<i>For >200 To 500, Add</i>	0.85	
		<i>For 12" On Center, Add</i>	1.05	
		<i>For 24" On Center, Deduct</i>	-1.05	
05 41 00 00-0005	SF	6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	7.49	1.14
		<i>For Walls >10' High, Add</i>	1.50	
		<i>For Curved Wall, Add</i>	0.81	
		<i>For Up To 200, Add</i>	2.04	
		<i>For >200 To 500, Add</i>	1.02	
		<i>For 12" On Center, Add</i>	1.36	
		<i>For 24" On Center, Deduct</i>	-1.36	
05 41 00 00-0006	SF	8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	8.36	1.25
		<i>For Walls >10' High, Add</i>	1.67	
		<i>For Curved Wall, Add</i>	0.85	
		<i>For Up To 200, Add</i>	2.24	
		<i>For >200 To 500, Add</i>	1.12	
		<i>For 12" On Center, Add</i>	1.53	
		<i>For 24" On Center, Deduct</i>	-1.53	

05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ^(05 41)

05 41 00 00-0008	SF	2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	5.46	1.02
		<i>For Walls >10' High, Add</i>	1.09	
		<i>For Curved Wall, Add</i>	0.75	
		<i>For Up To 200, Add</i>	1.59	
		<i>For >200 To 500, Add</i>	0.80	
		<i>For 12" On Center, Add</i>	0.97	
		<i>For 24" On Center, Deduct</i>	-0.97	
05 41 00 00-0009	SF	3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	6.30	1.04
		<i>For Walls >10' High, Add</i>	1.26	
		<i>For Curved Wall, Add</i>	0.79	
		<i>For Up To 200, Add</i>	1.78	
		<i>For >200 To 500, Add</i>	0.89	
		<i>For 12" On Center, Add</i>	1.13	
		<i>For 24" On Center, Deduct</i>	-1.13	
05 41 00 00-0010	SF	4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	6.65	1.04
		<i>For Walls >10' High, Add</i>	1.33	
		<i>For Curved Wall, Add</i>	0.82	
		<i>For Up To 200, Add</i>	1.88	
		<i>For >200 To 500, Add</i>	0.94	
		<i>For 12" On Center, Add</i>	1.19	
		<i>For 24" On Center, Deduct</i>	-1.19	

05 Metals**05 40 Cold-Formed Metal Framing****05 41 Structural Metal Stud Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0011	SF		6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	8.38	1.25
			<i>For Walls >10' High, Add</i>	1.68	
			<i>For Curved Wall, Add</i>	0.86	
			<i>For Up To 200, Add</i>	2.25	
			<i>For >200 To 500, Add</i>	1.12	
			<i>For 12" On Center, Add</i>	1.53	
			<i>For 24" On Center, Deduct</i>	-1.53	
05 41 00 00-0012	SF		8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	9.23	1.36
			<i>For Walls >10' High, Add</i>	1.85	
			<i>For Curved Wall, Add</i>	0.90	
			<i>For Up To 200, Add</i>	2.45	
			<i>For >200 To 500, Add</i>	1.22	
			<i>For 12" On Center, Add</i>	1.70	
			<i>For 24" On Center, Deduct</i>	-1.70	
05 41 00 00-0013			14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ^(05 41)		
05 41 00 00-0014	SF		3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	7.50	1.42
			<i>For Walls >10' High, Add</i>	1.50	
			<i>For Curved Wall, Add</i>	0.95	
			<i>For Up To 200, Add</i>	2.13	
			<i>For >200 To 500, Add</i>	1.07	
			<i>For 12" On Center, Add</i>	1.34	
			<i>For 24" On Center, Deduct</i>	-1.34	
05 41 00 00-0015	SF		4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	7.71	1.44
			<i>For Walls >10' High, Add</i>	1.54	
			<i>For Curved Wall, Add</i>	0.96	
			<i>For Up To 200, Add</i>	2.18	
			<i>For >200 To 500, Add</i>	1.09	
			<i>For 12" On Center, Add</i>	1.38	
			<i>For 24" On Center, Deduct</i>	-1.38	
05 41 00 00-0016	SF		6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	9.63	1.52
			<i>For Walls >10' High, Add</i>	1.93	
			<i>For Curved Wall, Add</i>	1.01	
			<i>For Up To 200, Add</i>	2.60	
			<i>For >200 To 500, Add</i>	1.30	
			<i>For 12" On Center, Add</i>	1.76	
			<i>For 24" On Center, Deduct</i>	-1.76	
05 41 00 00-0017	SF		8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	10.56	1.59
			<i>For Walls >10' High, Add</i>	2.11	
			<i>For Curved Wall, Add</i>	1.06	
			<i>For Up To 200, Add</i>	2.82	
			<i>For >200 To 500, Add</i>	1.41	
			<i>For 12" On Center, Add</i>	1.94	
			<i>For 24" On Center, Deduct</i>	-1.94	
05 42 Cold-Formed Metal Joist Framing ^(05 40)					
05 42 13 Cold-Formed Metal Floor Joist Framing ^(05 42)					
			Note: Floor or roof joist framing		
05 42 13 00-0001			Steel Joists, 20 Gauge ^(05 42 13)		
05 42 13 00-0002	LF		5-1/2" - 20 Gauge Steel Joists	10.69	2.43
05 42 13 00-0003	LF		6" - 20 Gauge Steel Joists	11.68	3.06
05 42 13 00-0004	LF		7-1/4" - 20 Gauge Steel Joists	12.61	3.35
05 42 13 00-0005	LF		8" - 20 Gauge Steel Joists	14.14	3.57
05 42 13 00-0006			Steel Joists, 18 Gauge ^(05 42 13)		
05 42 13 00-0007	LF		5-1/2" - 18 Gauge Steel Joists	11.90	2.70
05 42 13 00-0008	LF		6" - 18 Gauge Steel Joists	13.02	3.40
05 42 13 00-0009	LF		7-1/4" - 18 Gauge Steel Joists	14.12	3.73
05 42 13 00-0010	LF		8" - 18 Gauge Steel Joists	14.53	3.96
05 42 13 00-0011			Steel Joists, 16 Gauge ^(05 42 13)		
05 42 13 00-0012	LF		7-1/4" - 16 Gauge Steel Joists	15.25	3.76
05 42 13 00-0013	LF		8" - 16 Gauge Steel Joists	16.10	3.96
05 42 13 00-0014			Steel Joists, 14 Gauge ^(05 42 13)		
05 42 13 00-0015	LF		9-1/4" - 14 Gauge Steel Joists	18.15	3.96
05 42 13 00-0016	LF		11-1/2" - 14 Gauge Steel Joists	19.71	4.18
05 42 13 00-0017			Steel Joists, 12 Gauge ^(05 42 13)		
05 42 13 00-0018	LF		9-1/4" - 12 Gauge Steel Joists	21.58	4.36
05 42 13 00-0019	LF		11-1/2" - 12 Gauge Steel Joists	23.59	4.59
05 42 13 00-0020			Steel Joists, 10 Gauge ^(05 42 13)		



Metals	05	05
Cold-Formed Metal Framing	05 40	
Cold-Formed Metal Joist Framing	05 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 42 13 00-0021 LF 9-1/4" - 10 Gauge Steel Joists.....	25.08	4.80
05 42 13 00-0022 LF 11-1/2" - 10 Gauge Steel Joists.....	27.55	5.05
05 42 13 00-0023 Steel Joists, 8 Gauge (05 42 13)		
05 42 13 00-0024 LF 9-1/4" - 8 Gauge Steel Joists.....	28.63	5.28
05 42 13 00-0025 LF 11-1/2" - 8 Gauge Steel Joists.....	31.53	5.56
05 42 23 Cold-Formed Metal Roof Joist Framing (05 42)		
See CSI section 05 42 13 00-0000 for metal joist framing.		
05 43 Slotted Channel Framing (05 40)		
05 43 00 00-0001 Unistrut Channel (05 43) Note: Excludes fasteners and accessories.		
05 43 00 00-0002 Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0003 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	11.50	2.45
For Galvanizing, Add	1.12	
For Powder Coating, Add	0.99	
05 43 00 00-0004 LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	11.82	2.45
For Galvanizing, Add	1.18	
For Powder Coating, Add	1.04	
05 43 00 00-0005 LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	12.32	2.45
For Galvanizing, Add	1.26	
For Powder Coating, Add	1.11	
05 43 00 00-0006 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	10.86	2.45
For Galvanizing, Add	1.01	
For Powder Coating, Add	0.89	
05 43 00 00-0007 LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel.....	9.46	2.45
For Galvanizing, Add	0.78	
For Powder Coating, Add	0.68	
05 43 00 00-0008 Stainless Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0009 304 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0010 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	24.50	2.45
05 43 00 00-0011 LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	29.29	2.45
05 43 00 00-0012 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	28.10	2.45
05 43 00 00-0013 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	35.49	2.45
05 43 00 00-0014 316 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0015 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	40.03	2.45
05 43 00 00-0016 Unistrut Closure Strips (05 43)		
05 43 00 00-0017 LF Steel Raceway Closure Strip For Unistrut Channel.....	6.05	0.54
05 43 00 00-0018 Lock Nuts With Spring For Unistrut Channel (05 43) Note: Includes hex bolt.		
05 43 00 00-0019 Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018) Note: Includes hex bolt.		
05 43 00 00-0020 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	7.34	
05 43 00 00-0021 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....	8.02	
05 43 00 00-0022 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....	8.53	
05 43 00 00-0023 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....	11.29	
05 43 00 00-0024 Stainless Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018) Note: Includes hex bolt.		
05 43 00 00-0025 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	14.42	
05 43 00 00-0026 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	15.29	
05 43 00 00-0027 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	21.32	
05 43 00 00-0028 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	35.90	
05 43 00 00-0029 Lock Nuts Without Spring For Unistrut Channel (05 43) Note: Includes hex bolt.		
05 43 00 00-0030 Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029) Note: Includes hex bolt.		
05 43 00 00-0031 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....	7.36	
05 43 00 00-0032 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel.....	8.12	
05 43 00 00-0033 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel.....	8.57	
05 43 00 00-0034 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....	12.09	

05 Metals**05 40 Cold-Formed Metal Framing****05 43 Slotted Channel Framing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 43 00 00-0035		Stainless Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029)		
Note: Includes hex bolt.				
05 43 00 00-0036	EA	1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	10.56	
05 43 00 00-0037	EA	3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	12.56	
05 43 00 00-0038	EA	1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	13.62	
05 43 00 00-0039	EA	5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	35.00	
05 43 00 00-0040		Beam Clamp For Unistrut Channel (05 43)		
05 43 00 00-0041	EA	1-5/8" Channel, P2675 Unistrut Beam Clamp.....	23.31	8.13
05 43 00 00-0042	EA	1-5/8" Channel, P2676 Unistrut Beam Clamp.....	29.87	8.13
05 43 00 00-0043	EA	Add For Unistrut Swivel Nut, P2676.....	3.57	
05 43 00 00-0044		Beam Clamp Clevis Hangers For Unistrut Channel (05 43)		
05 43 00 00-0045	EA	Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674).....	25.59	8.13
05 43 00 00-0046	EA	Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677).....	30.81	8.13
05 43 00 00-0047	EA	Add For Unistrut Swivel Nut.....	3.57	
05 43 00 00-0048	EA	6-Hole ElectroGalvanized Steel Shelf Bracket For Unistrut.....	173.60	10.84
05 43 00 00-0049		Pipe And Rigid Conduit Clamps (05 43)		
05 43 00 00-0050		Pipe And Rigid Conduit Clamps (05 43 00 00-0049)		
Note: Includes stainless steel (316) hardware.				
05 43 00 00-0051	PR	1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	8.64	2.82
05 43 00 00-0052	PR	3/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	8.83	2.82
05 43 00 00-0053	PR	1" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	10.21	3.41
05 43 00 00-0054	PR	1-1/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	10.81	3.70
05 43 00 00-0055	PR	1-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	13.64	4.14
05 43 00 00-0056	PR	2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	13.64	4.14
05 43 00 00-0057	PR	2-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	21.04	6.95
05 43 00 00-0058	PR	3" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	21.41	6.95
05 43 00 00-0059	PR	3-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	22.92	7.69
05 43 00 00-0060	PR	4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	25.36	8.29
05 43 00 00-0061		Pipe And Rigid Conduit Clamps (05 43 00 00-0049)		
Note: Includes nylon hardware.				
05 43 00 00-0062	PR	1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	11.67	2.82
05 43 00 00-0063	PR	3/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	12.04	2.82
05 43 00 00-0064	PR	1" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	13.42	3.41
05 43 00 00-0065	PR	1-1/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	14.14	3.70
05 43 00 00-0066	PR	1-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	18.85	4.14
05 43 00 00-0067	PR	2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	18.85	4.14
05 43 00 00-0068	PR	2-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	28.07	6.95
05 43 00 00-0069	PR	3" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	28.81	6.95
05 43 00 00-0070	PR	3-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	30.43	7.69
05 43 00 00-0071	PR	4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	33.90	8.29

05 45 Metal Support Assemblies (05 40)**05 45 13 Mechanical Metal Supports** (05 45)

See CSI section 23 05 29 00-0000 for metal supports.

05 50 Metal Fabrications (05)**05 51 Metal Stairs** (05 50)**05 51 13 Metal Pan Stairs** (05 51)Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail.
See CSI section 05 52 13 00-0000 for handrails.

05 51 13 00-0001		Open Concrete Filled Metal Pan Stair And Landing (05 51 13)		
Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.				
05 51 13 00-0002	RSR	3'-6" Wide Open Concrete Filled Metal Pan Tread Stair.....	1,027.20	31.80
		<i>For Closed Riser, Add</i>	118.90	
05 51 13 00-0003	RSR	4'-0" Wide Open Concrete Filled Metal Pan Tread Stair.....	1,167.02	37.09
		<i>For Closed Riser, Add</i>	134.95	
05 51 13 00-0004	RSR	5'-0" Wide Open Concrete Filled Metal Pan Tread Stair.....	1,299.50	43.45
		<i>For Closed Riser, Add</i>	149.98	
05 51 13 00-0005	SF	Concrete Filled Steel Pan Landing.....	83.30	5.30
Note: Conventional shape.				

05 51 19 Metal Grating Stairs (05 51)

Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.

05 51 19 00-0001 **Open Steel Grating Tread Metal Stair And Landing** (05 51 19)

Note: Includes steel stringers, safety nosing and 2 pipe handrail.



Metals	05	05
Metal Fabrications	05 50	
Metal Stairs	05 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 19 00-0002	RSR		3'-6" Wide Open Steel Grating Tread Metal Stair <i>For Closed Riser, Add</i> <i>For Galvanized Steel, Add</i>	496.29 59.85 102.88	42.39
05 51 19 00-0003	RSR		4'-0" Wide Open Steel Grating Tread Metal Stair <i>For Closed Riser, Add</i> <i>For Galvanized Steel, Add</i>	528.60 63.36 107.78	48.75
05 51 19 00-0004	RSR		5'-0" Wide Open Steel Grating Tread Metal Stair <i>For Closed Riser, Add</i> <i>For Galvanized Steel, Add</i>	584.75 69.72 117.57	57.23
05 51 19 00-0005	SF		Steel Grating Landing With Framing And 2 Pipe Handrail Note: Conventional shape. <i>For Galvanized Steel, Add</i>	91.74 17.64	5.30
05 51 33 Metal Ladders (05 51)					
Note: Includes factory prime.					
05 51 33 13 Vertical Metal Ladders (05 51 33)					
05 51 33 13-0001 Vertical Ladders (05 51 33 13)					
Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"					
05 51 33 13-0002	VLF		20" Wide Vertical Steel Ladder Primed <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	89.77 12.47 24.94	12.72
05 51 33 13-0003	VLF		24" Wide Vertical Steel Ladder Primed <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	102.41 15.63 31.26	12.72
05 51 33 13-0004	VLF		20" Wide Vertical Steel Caged Ladder Primed <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	212.45 36.22 72.45	21.20
05 51 33 13-0005	VLF		24" Wide Vertical Steel Caged Ladder Primed <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	237.72 42.54 85.09	21.20
05 51 33 13-0006 Vertical Ladders Options (05 51 33 13)					
05 51 33 13-0007	EA		20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed Note: Extends 42" above landing surface. Includes mounting bracket. <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	355.73 69.06 138.12	39.74
05 51 33 13-0008	EA		24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed Note: Extends 42" above landing surface. Includes mounting bracket. <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	389.47 76.17 152.34	42.39
05 51 33 13-0009	EA		Security Cage Entry Gate With Lockable Hasp	534.30	13.25
05 51 33 13-0010	EA		6' Security Ladder Guard	1,140.04	79.49
05 51 33 13-0011	EA		8' Security Ladder Guard	1,363.56	92.73
05 51 33 13-0012	EA		Safety Chain Attachment	208.07	
05 51 33 13-0013 Welded Steel Ladder Cages (05 51 33 13)					
Note: For existing fixed ladders up to 20" wide. Excludes the ladder.					
05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages (05 51 33 13-0013)					
05 51 33 13-0015	EA		7-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,104.58	158.97
05 51 33 13-0016	EA		8-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,286.63	164.27
05 51 33 13-0017	EA		9-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,431.42	169.57
05 51 33 13-0018	EA		10-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,586.14	174.87
05 51 33 13-0019	EA		11-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,676.26	180.16
05 51 33 13-0020	EA		12-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,823.53	185.46
05 51 33 13-0021	EA		13-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,953.40	190.76
05 51 33 13-0022	EA		14-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,123.03	196.06
05 51 33 13-0023	EA		15-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,287.69	201.36
05 51 33 13-0024	EA		16-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,422.53	206.66
05 51 33 13-0025	EA		17-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,587.20	211.96
05 51 33 13-0026	EA		18-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,746.89	217.26
05 51 33 13-0027	EA		19-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,904.10	222.56
05 51 33 13-0028	EA		20-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,190.52	227.86
05 51 33 13-0029	EA		21-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,275.65	233.16
05 51 33 13-0030	EA		22-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,422.92	238.46
05 51 33 13-0031	EA		23-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,557.77	243.76
05 51 33 13-0032	EA		24-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,682.67	249.05
05 51 33 13-0033	EA		25-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,961.64	254.35
05 51 33 13-0034	EA		26-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,111.40	259.65
05 51 33 13-0035	EA		27-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,251.21	264.95
05 51 33 13-0036 Stainless Steel, Welded Steel Ladder Cages (05 51 33 13-0013)					
05 51 33 13-0037	EA		7-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,042.86	158.97
05 51 33 13-0038	EA		8-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,387.90	164.27
05 51 33 13-0039	EA		9-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,963.02	169.57
05 51 33 13-0040	EA		10-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,246.40	174.87
05 51 33 13-0041	EA		11-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,484.70	180.16
05 51 33 13-0042	EA		12-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,801.29	185.46



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33	13-0043	EA	13-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	7,371.67	190.76
05 51 33	13-0044	EA	14-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	7,659.77	196.06
05 51 33	13-0045	EA	15-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	7,957.38	201.36
05 51 33	13-0046	EA	16-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	8,283.45	206.66
05 51 33	13-0047	EA	17-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	8,865.69	211.96
05 51 33	13-0048	EA	18-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	9,156.18	217.26
05 51 33	13-0049	EA	19-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	9,432.44	222.56
05 51 33	13-0050	EA	20-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	9,891.34	227.86
05 51 33	13-0051	EA	21-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	10,407.14	233.16
05 51 33	13-0052	EA	22-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	10,692.89	238.46
05 51 33	13-0053	EA	23-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	10,985.75	243.76
05 51 33	13-0054	EA	24-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	11,259.64	249.05
05 51 33	13-0055	EA	25-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	11,965.22	254.35
05 51 33	13-0056	EA	26-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	12,239.10	259.65
05 51 33	13-0057	EA	27-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	12,520.11	264.95

05 51 33 16 Inclined Metal Ladders (05 51 33)

05 51 33 16-0001	Industrial Ship Ladder, Incline Stairs (05 51 33 16)				
	Note: Includes factory prime.				
05 51 33 16-0002	RSR 3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side		352.27	52.99	
	For Aluminum, Add		123.15		

05 51 33 23 Alternating Tread Ladders (05 51 33)

05 51 33 23-0001	Vertical Ladders With Alternating Tread (05 51 33 23)				
05 51 33 23-0002	EA 4' Vertical Height Aluminum Alternating Tread Ladder		2,296.52	158.97	
	For Stainless Steel, Add		211.99		
	For Primed Steel, Deduct		-176.66		
05 51 33 23-0003	EA 5' Vertical Height Aluminum Alternating Tread Ladder		2,631.72	168.50	
	For Stainless Steel, Add		258.31		
	For Primed Steel, Deduct		-201.48		
05 51 33 23-0004	EA 6' Vertical Height Aluminum Alternating Tread Ladder		2,924.16	168.50	
	For Stainless Steel, Add		306.66		
	For Primed Steel, Deduct		-224.10		
05 51 33 23-0005	EA 7' Vertical Height Aluminum Alternating Tread Ladder		3,335.95	211.75	
	For Stainless Steel, Add		354.97		
	For Primed Steel, Deduct		-243.22		
05 51 33 23-0006	EA 8' Vertical Height Aluminum Alternating Tread Ladder		3,664.98	219.25	
	For Stainless Steel, Add		410.77		
	For Primed Steel, Deduct		-264.07		
05 51 33 23-0007	EA 9' Vertical Height Aluminum Alternating Tread Ladder		3,923.38	219.25	
	For Stainless Steel, Add		462.91		
	For Primed Steel, Deduct		-279.34		
05 51 33 23-0008	EA 10' Vertical Height Aluminum Alternating Tread Ladder		4,308.02	244.56	
	For Stainless Steel, Add		523.92		
	For Primed Steel, Deduct		-296.89		
05 51 33 23-0009	EA 11' Vertical Height Aluminum Alternating Tread Ladder		4,597.53	244.56	
	For Stainless Steel, Add		586.26		
	For Primed Steel, Deduct		-312.04		
05 51 33 23-0010	EA 12' Vertical Height Aluminum Alternating Tread Ladder		4,822.78	244.56	
	For Stainless Steel, Add		641.21		
	For Primed Steel, Deduct		-320.60		

05 52 Metal Railings (05 52)

05 52 13 Pipe and Tube Railings (05 52)

Note: Includes sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

05 52 13 00-0001	Welded Steel Pipe Railing (05 52 13)				
	Note: Includes field welds and touch-up of welds.				
05 52 13 00-0002	One Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)				
	Note: Includes factory primed posts and one rail.				



	Metals	05
	Metal Fabrications	05 50
	Metal Railings	05 52

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0003 LF 1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	36.75	10.60
For Schedule 80 Handrail, Add	4.59	
For 11 Gauge A513 Steel Tubing, Deduct	-3.42	
For 12 Gauge A513 Steel Tubing, Deduct	-3.89	
For 14 Gauge A513 Steel Tubing, Deduct	-5.13	
For 16 Gauge A513 Steel Tubing, Deduct	-6.06	
For Additional Off Set Handrail, ADA Attachment, Add	13.57	
For Aluminum, Satin Finish, Add	6.53	
For Aluminum, Clear Anodized Finish, Add	10.11	
For Aluminum, Dark Anodized Finish, Add	11.66	
For Galvanizing, Add	6.22	
For Wrought Iron, Add	3.68	
For Solid Steel Rails, Add	7.35	
For 304 Stainless Steel, Add	49.76	
For 316 Stainless Steel, Add	55.98	
For 2" Wheel Guard, Add	1.48	
For 4" High Kick Plate, Add	1.94	
For 6" High Kick Plate, Add	3.11	
For Curved Rail, Add	15.69	
For Mounting On Stairs, Add	11.03	
For Mounting On Slopes, Add	3.68	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.68	
For Custom Design Or Shapes (Square Tops, etc), Add	13.08	
For Nylon Coating, Add	2.33	
05 52 13 00-0004 LF 1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	39.43	10.60
For Schedule 80 Handrail, Add	7.18	
For 11 Gauge A513 Steel Tubing, Deduct	-4.01	
For 12 Gauge A513 Steel Tubing, Deduct	-4.56	
For 14 Gauge A513 Steel Tubing, Deduct	-6.02	
For 16 Gauge A513 Steel Tubing, Deduct	-7.11	
For Additional Off Set Handrail, ADA Attachment, Add	15.18	
For Aluminum, Satin Finish, Add	7.66	
For Aluminum, Clear Anodized Finish, Add	11.85	
For Aluminum, Dark Anodized Finish, Add	13.67	
For Galvanizing, Add	7.29	
For Wrought Iron, Add	3.94	
For Solid Steel Rails, Add	7.89	
For 304 Stainless Steel, Add	58.34	
For 316 Stainless Steel, Add	65.63	
For 2" Wheel Guard, Add	1.73	
For 4" High Kick Plate, Add	2.28	
For 6" High Kick Plate, Add	3.65	
For Curved Rail, Add	17.30	
For Mounting On Stairs, Add	11.83	
For Mounting On Slopes, Add	3.94	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.68	
For Custom Design Or Shapes (Square Tops, etc), Add	14.42	
For Nylon Coating, Add	2.73	
05 52 13 00-0005 LF 1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	42.11	10.60
For Schedule 80 Handrail, Add	7.18	
For 11 Gauge A513 Steel Tubing, Deduct	-4.60	
For 12 Gauge A513 Steel Tubing, Deduct	-5.23	
For 14 Gauge A513 Steel Tubing, Deduct	-6.90	
For 16 Gauge A513 Steel Tubing, Deduct	-8.15	
For Additional Off Set Handrail, ADA Attachment, Add	16.78	
For Aluminum, Satin Finish, Add	8.78	
For Aluminum, Clear Anodized Finish, Add	13.59	
For Aluminum, Dark Anodized Finish, Add	15.68	
For Galvanizing, Add	8.36	
For Wrought Iron, Add	4.21	
For Solid Steel Rails, Add	8.42	
For 304 Stainless Steel, Add	66.91	
For 316 Stainless Steel, Add	75.28	
For 2" Wheel Guard, Add	1.99	
For 4" High Kick Plate, Add	2.61	
For 6" High Kick Plate, Add	4.18	
For Curved Rail, Add	18.91	
For Mounting On Stairs, Add	12.63	
For Mounting On Slopes, Add	4.21	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.68	
For Custom Design Or Shapes (Square Tops, etc), Add	15.76	
For Nylon Coating, Add	3.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0006 LF 2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	46.75	10.60
For Schedule 80 Handrail, Add	8.22	
For 11 Gauge A513 Steel Tubing, Deduct	-5.62	
For 12 Gauge A513 Steel Tubing, Deduct	-6.39	
For 14 Gauge A513 Steel Tubing, Deduct	-8.43	
For 16 Gauge A513 Steel Tubing, Deduct	-9.96	
For Additional Off Set Handrail, ADA Attachment, Add	19.57	
For Aluminum, Satin Finish, Add	10.73	
For Aluminum, Clear Anodized Finish, Add	16.61	
For Aluminum, Dark Anodized Finish, Add	19.16	
For Galvanizing, Add	10.22	
For Wrought Iron, Add	4.68	
For Solid Steel Rails, Add	9.35	
For 304 Stainless Steel, Add	81.76	
For 316 Stainless Steel, Add	91.98	
For 2" Wheel Guard, Add	2.43	
For 4" High Kick Plate, Add	3.19	
For 6" High Kick Plate, Add	5.11	
For Curved Rail, Add	21.69	
For Mounting On Stairs, Add	14.03	
For Mounting On Slopes, Add	4.68	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.68	
For Custom Design Or Shapes (Square Tops, etc), Add	18.08	
For Nylon Coating, Add	3.83	
05 52 13 00-0007 LF 2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	52.32	10.60
For Schedule 80 Handrail, Add	9.28	
For 11 Gauge A513 Steel Tubing, Deduct	-6.85	
For 12 Gauge A513 Steel Tubing, Deduct	-7.78	
For 14 Gauge A513 Steel Tubing, Deduct	-10.27	
For 16 Gauge A513 Steel Tubing, Deduct	-12.14	
For Additional Off Set Handrail, ADA Attachment, Add	22.91	
For Aluminum, Satin Finish, Add	13.07	
For Aluminum, Clear Anodized Finish, Add	20.23	
For Aluminum, Dark Anodized Finish, Add	23.34	
For Galvanizing, Add	12.45	
For Wrought Iron, Add	5.23	
For Solid Steel Rails, Add	10.46	
For 304 Stainless Steel, Add	99.58	
For 316 Stainless Steel, Add	112.03	
For 2" Wheel Guard, Add	2.96	
For 4" High Kick Plate, Add	3.89	
For 6" High Kick Plate, Add	6.22	
For Curved Rail, Add	25.03	
For Mounting On Stairs, Add	15.70	
For Mounting On Slopes, Add	5.23	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.68	
For Custom Design Or Shapes (Square Tops, etc), Add	20.86	
For Nylon Coating, Add	4.67	
05 52 13 00-0008 Two Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small>		
Note: Includes factory primed posts and two rails.		
05 52 13 00-0009 LF 1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	48.41	10.60
For Schedule 80 Handrail, Add	4.59	
For 11 Gauge A513 Steel Tubing, Deduct	-5.99	
For 12 Gauge A513 Steel Tubing, Deduct	-6.80	
For 14 Gauge A513 Steel Tubing, Deduct	-8.98	
For 16 Gauge A513 Steel Tubing, Deduct	-10.61	
For Additional Off Set Handrail, ADA Attachment, Add	13.57	
For Aluminum, Satin Finish, Add	11.43	
For Aluminum, Clear Anodized Finish, Add	17.69	
For Aluminum, Dark Anodized Finish, Add	20.41	
For Galvanizing, Add	10.88	
For Wrought Iron, Add	4.84	
For Solid Steel Rails, Add	9.68	
For 304 Stainless Steel, Add	87.07	
For 316 Stainless Steel, Add	97.96	
For 2" Wheel Guard, Add	2.58	
For 4" High Kick Plate, Add	3.40	
For 6" High Kick Plate, Add	5.44	
For Curved Rail, Add	22.69	
For Mounting On Stairs, Add	14.52	
For Mounting On Slopes, Add	4.84	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.68	
For Custom Design Or Shapes (Square Tops, etc), Add	18.91	
For Nylon Coating, Add	4.08	



	Metals	05
	Metal Fabrications	05 50
	Metal Railings	05 52

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0010 LF 1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	53.10	10.60
For Schedule 80 Handrail, Add	7.18	
For 11 Gauge A513 Steel Tubing, Deduct	-7.02	
For 12 Gauge A513 Steel Tubing, Deduct	-7.98	
For 14 Gauge A513 Steel Tubing, Deduct	-10.53	
For 16 Gauge A513 Steel Tubing, Deduct	-12.44	
For Additional Off Set Handrail, ADA Attachment, Add	15.18	
For Aluminum, Satin Finish, Add	13.40	
For Aluminum, Clear Anodized Finish, Add	20.74	
For Aluminum, Dark Anodized Finish, Add	23.93	
For Galvanizing, Add	12.76	
For Wrought Iron, Add	5.31	
For Solid Steel Rails, Add	10.62	
For 304 Stainless Steel, Add	102.08	
For 316 Stainless Steel, Add	114.84	
For 2" Wheel Guard, Add	3.03	
For 4" High Kick Plate, Add	3.99	
For 6" High Kick Plate, Add	6.38	
For Curved Rail, Add	25.50	
For Mounting On Stairs, Add	15.93	
For Mounting On Slopes, Add	5.31	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.68	
For Custom Design Or Shapes (Square Tops, etc), Add	21.25	
For Nylon Coating, Add	4.79	
05 52 13 00-0011 LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	57.78	10.60
For Schedule 80 Handrail, Add	7.18	
For 11 Gauge A513 Steel Tubing, Deduct	-8.05	
For 12 Gauge A513 Steel Tubing, Deduct	-9.15	
For 14 Gauge A513 Steel Tubing, Deduct	-12.07	
For 16 Gauge A513 Steel Tubing, Deduct	-14.27	
For Additional Off Set Handrail, ADA Attachment, Add	16.78	
For Aluminum, Satin Finish, Add	15.36	
For Aluminum, Clear Anodized Finish, Add	23.78	
For Aluminum, Dark Anodized Finish, Add	27.44	
For Galvanizing, Add	14.63	
For Wrought Iron, Add	5.78	
For Solid Steel Rails, Add	11.56	
For 304 Stainless Steel, Add	117.06	
For 316 Stainless Steel, Add	131.69	
For 2" Wheel Guard, Add	3.48	
For 4" High Kick Plate, Add	4.57	
For 6" High Kick Plate, Add	7.32	
For Curved Rail, Add	28.31	
For Mounting On Stairs, Add	17.33	
For Mounting On Slopes, Add	5.78	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.68	
For Custom Design Or Shapes (Square Tops, etc), Add	23.59	
For Nylon Coating, Add	5.49	
05 52 13 00-0012 LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	65.91	10.60
For Schedule 80 Handrail, Add	8.22	
For 11 Gauge A513 Steel Tubing, Deduct	-9.84	
For 12 Gauge A513 Steel Tubing, Deduct	-11.18	
For 14 Gauge A513 Steel Tubing, Deduct	-14.75	
For 16 Gauge A513 Steel Tubing, Deduct	-17.44	
For Additional Off Set Handrail, ADA Attachment, Add	19.57	
For Aluminum, Satin Finish, Add	18.78	
For Aluminum, Clear Anodized Finish, Add	29.06	
For Aluminum, Dark Anodized Finish, Add	33.53	
For Galvanizing, Add	17.88	
For Wrought Iron, Add	6.59	
For Solid Steel Rails, Add	13.18	
For 304 Stainless Steel, Add	143.07	
For 316 Stainless Steel, Add	160.96	
For 2" Wheel Guard, Add	4.25	
For 4" High Kick Plate, Add	5.59	
For 6" High Kick Plate, Add	8.94	
For Curved Rail, Add	33.19	
For Mounting On Stairs, Add	19.77	
For Mounting On Slopes, Add	6.59	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.68	
For Custom Design Or Shapes (Square Tops, etc), Add	27.66	
For Nylon Coating, Add	6.71	

05	05 Metals
	05 50 Metal Fabrications
	05 52 Metal Railings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0013 LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	75.65	10.60
For Schedule 80 Handrail, Add	9.28	
For 11 Gauge A513 Steel Tubing, Deduct	-11.98	
For 12 Gauge A513 Steel Tubing, Deduct	-13.61	
For 14 Gauge A513 Steel Tubing, Deduct	-17.97	
For 16 Gauge A513 Steel Tubing, Deduct	-21.24	
For Additional Off Set Handrail, ADA Attachment, Add	22.91	
For Aluminum, Satin Finish, Add	22.87	
For Aluminum, Clear Anodized Finish, Add	35.39	
For Aluminum, Dark Anodized Finish, Add	40.84	
For Galvanizing, Add	21.78	
For Wrought Iron, Add	7.57	
For Solid Steel Rails, Add	15.13	
For 304 Stainless Steel, Add	174.24	
For 316 Stainless Steel, Add	196.02	
For 2" Wheel Guard, Add	5.17	
For 4" High Kick Plate, Add	6.81	
For 6" High Kick Plate, Add	10.89	
For Curved Rail, Add	39.03	
For Mounting On Stairs, Add	22.70	
For Mounting On Slopes, Add	7.57	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.68	
For Custom Design Or Shapes (Square Tops, etc), Add	32.53	
For Nylon Coating, Add	8.17	
 05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small>		
Note: Includes factory primed posts and three rails.		
05 52 13 00-0015 LF 1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	75.42	12.72
For Schedule 80 Handrail, Add	6.66	
For 11 Gauge A513 Steel Tubing, Deduct	-11.00	
For 12 Gauge A513 Steel Tubing, Deduct	-12.50	
For 14 Gauge A513 Steel Tubing, Deduct	-16.50	
For 16 Gauge A513 Steel Tubing, Deduct	-19.50	
For Additional Off Set Handrail, ADA Attachment, Add	14.42	
For Aluminum, Satin Finish, Add	21.00	
For Aluminum, Clear Anodized Finish, Add	32.49	
For Aluminum, Dark Anodized Finish, Add	37.49	
For Galvanizing, Add	20.00	
For Wrought Iron, Add	7.54	
For Solid Steel Rails, Add	15.08	
For 304 Stainless Steel, Add	159.97	
For 316 Stainless Steel, Add	179.96	
For 2" Wheel Guard, Add	4.75	
For 4" High Kick Plate, Add	6.25	
For 6" High Kick Plate, Add	10.00	
For Curved Rail, Add	37.62	
For Mounting On Stairs, Add	22.63	
For Mounting On Slopes, Add	7.54	
For Post Base Flange With Screws, Add Per Post	20.04	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
For Custom Design Or Shapes (Square Tops, etc), Add	31.35	
For Nylon Coating, Add	7.50	
05 52 13 00-0016 LF 1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	84.03	12.72
For Schedule 80 Handrail, Add	10.11	
For 11 Gauge A513 Steel Tubing, Deduct	-12.89	
For 12 Gauge A513 Steel Tubing, Deduct	-14.65	
For 14 Gauge A513 Steel Tubing, Deduct	-19.34	
For 16 Gauge A513 Steel Tubing, Deduct	-22.85	
For Additional Off Set Handrail, ADA Attachment, Add	16.03	
For Aluminum, Satin Finish, Add	24.61	
For Aluminum, Clear Anodized Finish, Add	38.09	
For Aluminum, Dark Anodized Finish, Add	43.95	
For Galvanizing, Add	23.44	
For Wrought Iron, Add	8.40	
For Solid Steel Rails, Add	16.81	
For 304 Stainless Steel, Add	187.52	
For 316 Stainless Steel, Add	210.96	
For 2" Wheel Guard, Add	5.57	
For 4" High Kick Plate, Add	7.33	
For 6" High Kick Plate, Add	11.72	
For Curved Rail, Add	42.79	
For Mounting On Stairs, Add	25.21	
For Mounting On Slopes, Add	8.40	
For Post Base Flange With Screws, Add Per Post	20.04	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
For Custom Design Or Shapes (Square Tops, etc), Add	35.66	
For Nylon Coating, Add	8.79	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0017 LF 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	92.64	12.72
For Schedule 80 Handrail, Add	10.11	
For 11 Gauge A513 Steel Tubing, Deduct	-14.79	
For 12 Gauge A513 Steel Tubing, Deduct	-16.80	
For 14 Gauge A513 Steel Tubing, Deduct	-22.18	
For 16 Gauge A513 Steel Tubing, Deduct	-26.21	
For Additional Off Set Handrail, ADA Attachment, Add	17.63	
For Aluminum, Satin Finish, Add	28.23	
For Aluminum, Clear Anodized Finish, Add	43.69	
For Aluminum, Dark Anodized Finish, Add	50.41	
For Galvanizing, Add	26.88	
For Wrought Iron, Add	9.26	
For Solid Steel Rails, Add	18.53	
For 304 Stainless Steel, Add	215.07	
For 316 Stainless Steel, Add	241.96	
For 2" Wheel Guard, Add	6.38	
For 4" High Kick Plate, Add	8.40	
For 6" High Kick Plate, Add	13.44	
For Curved Rail, Add	47.96	
For Mounting On Stairs, Add	27.79	
For Mounting On Slopes, Add	9.26	
For Post Base Flange With Screws, Add Per Post	20.04	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
For Custom Design Or Shapes (Square Tops, etc), Add	39.96	
For Nylon Coating, Add	10.08	
05 52 13 00-0018 LF 2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	107.60	12.72
For Schedule 80 Handrail, Add	11.50	
For 11 Gauge A513 Steel Tubing, Deduct	-18.08	
For 12 Gauge A513 Steel Tubing, Deduct	-20.54	
For 14 Gauge A513 Steel Tubing, Deduct	-27.12	
For 16 Gauge A513 Steel Tubing, Deduct	-32.05	
For Additional Off Set Handrail, ADA Attachment, Add	20.42	
For Aluminum, Satin Finish, Add	34.51	
For Aluminum, Clear Anodized Finish, Add	53.41	
For Aluminum, Dark Anodized Finish, Add	61.63	
For Galvanizing, Add	32.87	
For Wrought Iron, Add	10.76	
For Solid Steel Rails, Add	21.52	
For 304 Stainless Steel, Add	262.94	
For 316 Stainless Steel, Add	295.81	
For 2" Wheel Guard, Add	7.81	
For 4" High Kick Plate, Add	10.27	
For 6" High Kick Plate, Add	16.43	
For Curved Rail, Add	56.93	
For Mounting On Stairs, Add	32.28	
For Mounting On Slopes, Add	10.76	
For Post Base Flange With Screws, Add Per Post	20.04	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
For Custom Design Or Shapes (Square Tops, etc), Add	47.44	
For Nylon Coating, Add	12.33	
05 52 13 00-0019 LF 2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	125.42	12.72
For Schedule 80 Handrail, Add	12.92	
For 11 Gauge A513 Steel Tubing, Deduct	-22.00	
For 12 Gauge A513 Steel Tubing, Deduct	-25.00	
For 14 Gauge A513 Steel Tubing, Deduct	-33.00	
For 16 Gauge A513 Steel Tubing, Deduct	-39.00	
For Additional Off Set Handrail, ADA Attachment, Add	23.76	
For Aluminum, Satin Finish, Add	42.00	
For Aluminum, Clear Anodized Finish, Add	64.99	
For Aluminum, Dark Anodized Finish, Add	74.99	
For Galvanizing, Add	40.00	
For Wrought Iron, Add	12.54	
For Solid Steel Rails, Add	25.08	
For 304 Stainless Steel, Add	319.97	
For 316 Stainless Steel, Add	359.96	
For 2" Wheel Guard, Add	9.50	
For 4" High Kick Plate, Add	12.50	
For 6" High Kick Plate, Add	20.00	
For Curved Rail, Add	67.62	
For Mounting On Stairs, Add	37.63	
For Mounting On Slopes, Add	12.54	
For Post Base Flange With Screws, Add Per Post	20.04	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
For Custom Design Or Shapes (Square Tops, etc), Add	56.35	
For Nylon Coating, Add	15.00	

05 52 13 00-0020 Four Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)
 Note: Includes factory primed posts and four rails.

05	05	Metals
	05 50	Metal Fabrications
	05 52	Metal Railings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0021 LF 1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	91.04	14.83
For Schedule 80 Handrail, Add	9.00	
For 11 Gauge A513 Steel Tubing, Deduct	-13.50	
For 12 Gauge A513 Steel Tubing, Deduct	-15.34	
For 14 Gauge A513 Steel Tubing, Deduct	-20.25	
For 16 Gauge A513 Steel Tubing, Deduct	-23.93	
For Additional Off Set Handrail, ADA Attachment, Add	15.27	
For Aluminum, Satin Finish, Add	25.77	
For Aluminum, Clear Anodized Finish, Add	39.88	
For Aluminum, Dark Anodized Finish, Add	46.02	
For Galvanizing, Add	24.54	
For Wrought Iron, Add	9.10	
For Solid Steel Rails, Add	18.21	
For 304 Stainless Steel, Add	196.35	
For 316 Stainless Steel, Add	220.90	
For 2" Wheel Guard, Add	5.83	
For 4" High Kick Plate, Add	7.67	
For 6" High Kick Plate, Add	12.27	
For Curved Rail, Add	45.72	
For Mounting On Stairs, Add	27.31	
For Mounting On Slopes, Add	9.10	
For Post Base Flange With Screws, Add Per Post	20.47	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.95	
For Custom Design Or Shapes (Square Tops, etc), Add	38.10	
For Nylon Coating, Add	9.20	
05 52 13 00-0022 LF 1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	98.68	14.83
For Schedule 80 Handrail, Add	13.31	
For 11 Gauge A513 Steel Tubing, Deduct	-15.18	
For 12 Gauge A513 Steel Tubing, Deduct	-17.25	
For 14 Gauge A513 Steel Tubing, Deduct	-22.77	
For 16 Gauge A513 Steel Tubing, Deduct	-26.91	
For Additional Off Set Handrail, ADA Attachment, Add	16.88	
For Aluminum, Satin Finish, Add	28.98	
For Aluminum, Clear Anodized Finish, Add	44.85	
For Aluminum, Dark Anodized Finish, Add	51.75	
For Galvanizing, Add	27.60	
For Wrought Iron, Add	9.87	
For Solid Steel Rails, Add	19.74	
For 304 Stainless Steel, Add	220.80	
For 316 Stainless Steel, Add	248.40	
For 2" Wheel Guard, Add	6.56	
For 4" High Kick Plate, Add	8.63	
For 6" High Kick Plate, Add	13.80	
For Curved Rail, Add	50.30	
For Mounting On Stairs, Add	29.60	
For Mounting On Slopes, Add	9.87	
For Post Base Flange With Screws, Add Per Post	20.47	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.95	
For Custom Design Or Shapes (Square Tops, etc), Add	41.92	
For Nylon Coating, Add	10.35	
05 52 13 00-0023 LF 1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	106.33	14.83
For Schedule 80 Handrail, Add	13.31	
For 11 Gauge A513 Steel Tubing, Deduct	-16.86	
For 12 Gauge A513 Steel Tubing, Deduct	-19.16	
For 14 Gauge A513 Steel Tubing, Deduct	-25.29	
For 16 Gauge A513 Steel Tubing, Deduct	-29.89	
For Additional Off Set Handrail, ADA Attachment, Add	18.48	
For Aluminum, Satin Finish, Add	32.19	
For Aluminum, Clear Anodized Finish, Add	49.82	
For Aluminum, Dark Anodized Finish, Add	57.49	
For Galvanizing, Add	30.66	
For Wrought Iron, Add	10.63	
For Solid Steel Rails, Add	21.27	
For 304 Stainless Steel, Add	245.28	
For 316 Stainless Steel, Add	275.94	
For 2" Wheel Guard, Add	7.28	
For 4" High Kick Plate, Add	9.58	
For 6" High Kick Plate, Add	15.33	
For Curved Rail, Add	54.89	
For Mounting On Stairs, Add	31.90	
For Mounting On Slopes, Add	10.63	
For Post Base Flange With Screws, Add Per Post	20.47	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.95	
For Custom Design Or Shapes (Square Tops, etc), Add	45.75	
For Nylon Coating, Add	11.50	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0024 LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	123.35	14.83
For Schedule 80 Handrail, Add	15.05	
For 11 Gauge A513 Steel Tubing, Deduct	-20.61	
For 12 Gauge A513 Steel Tubing, Deduct	-23.42	
For 14 Gauge A513 Steel Tubing, Deduct	-30.91	
For 16 Gauge A513 Steel Tubing, Deduct	-36.53	
For Additional Off Set Handrail, ADA Attachment, Add	21.27	
For Aluminum, Satin Finish, Add	39.34	
For Aluminum, Clear Anodized Finish, Add	60.89	
For Aluminum, Dark Anodized Finish, Add	70.25	
For Galvanizing, Add	37.47	
For Wrought Iron, Add	12.34	
For Solid Steel Rails, Add	24.67	
For 304 Stainless Steel, Add	299.74	
For 316 Stainless Steel, Add	337.21	
For 2" Wheel Guard, Add	8.90	
For 4" High Kick Plate, Add	11.71	
For 6" High Kick Plate, Add	18.73	
For Curved Rail, Add	65.11	
For Mounting On Stairs, Add	37.01	
For Mounting On Slopes, Add	12.34	
For Post Base Flange With Screws, Add Per Post	20.47	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.95	
For Custom Design Or Shapes (Square Tops, etc), Add	54.26	
For Nylon Coating, Add	14.05	
05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	143.30	14.83
For Schedule 80 Handrail, Add	16.82	
For 11 Gauge A513 Steel Tubing, Deduct	-25.00	
For 12 Gauge A513 Steel Tubing, Deduct	-28.41	
For 14 Gauge A513 Steel Tubing, Deduct	-37.49	
For 16 Gauge A513 Steel Tubing, Deduct	-44.31	
For Additional Off Set Handrail, ADA Attachment, Add	24.61	
For Aluminum, Satin Finish, Add	47.72	
For Aluminum, Clear Anodized Finish, Add	73.85	
For Aluminum, Dark Anodized Finish, Add	85.22	
For Galvanizing, Add	45.45	
For Wrought Iron, Add	14.33	
For Solid Steel Rails, Add	28.66	
For 304 Stainless Steel, Add	363.58	
For 316 Stainless Steel, Add	409.03	
For 2" Wheel Guard, Add	10.79	
For 4" High Kick Plate, Add	14.20	
For 6" High Kick Plate, Add	22.72	
For Curved Rail, Add	77.08	
For Mounting On Stairs, Add	42.99	
For Mounting On Slopes, Add	14.33	
For Post Base Flange With Screws, Add Per Post	20.47	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.95	
For Custom Design Or Shapes (Square Tops, etc), Add	64.23	
For Nylon Coating, Add	17.04	
05 52 13 00-0026 Railing Infill Panels (05 52 13)		
Note: Includes field welds and touch-up of welds.		
05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026)		
Note: Square weave or square welded wire mesh.		
05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	14.40	
05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	15.30	
05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	16.08	
05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	27.19	
05 52 13 00-0032 Perforated Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0033 SF Powder Coated Steel, Perforated Metal, Railing Infill Panel	14.13	
05 52 13 00-0034 SF Galvanized Steel, Perforated Metal, Railing Infill Panel.....	14.61	
05 52 13 00-0035 SF Aluminum, Perforated Metal, Railing Infill Panel.....	15.64	
05 52 13 00-0036 SF Stainless Steel, Perforated Metal, Railing Infill Panel.....	31.38	
05 52 13 00-0037 Expanded Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0038 SF Powder Coated Steel, Expanded Metal, Railing Infill Panel.....	6.37	
05 52 13 00-0039 SF Galvanized Steel, Expanded Metal, Railing Infill Panel	13.02	
05 52 13 00-0040 SF Aluminum, Expanded Metal, Railing Infill Panel.....	17.10	
05 52 13 00-0041 SF Stainless Steel, Expanded Metal, Railing Infill Panel.....	25.49	
05 52 13 00-0042 Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)		
Note: Includes factory primed, fasteners and field touch-up of welds.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0043	LF		1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	36.73	6.36
			<i>For Schedule 80 Handrail, Add</i>	2.50	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.58	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.21	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.87	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.12	
			<i>For Stainless Steel, Add</i>	41.66	
			<i>For Aluminum, Satin Finish, Add</i>	8.75	
			<i>For Curved Rail, Add</i>	11.02	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	13.54	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	15.62	
			<i>For Galvanized Finish, Add</i>	6.25	
05 52 13 00-0044	LF		1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	37.40	6.36
			<i>For Schedule 80 Handrail, Add</i>	2.92	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.73	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.38	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-7.10	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.39	
			<i>For Stainless Steel, Add</i>	43.00	
			<i>For Aluminum, Satin Finish, Add</i>	9.03	
			<i>For Curved Rail, Add</i>	11.22	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	13.98	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	16.13	
			<i>For Galvanized Finish, Add</i>	6.45	
05 52 13 00-0045	LF		1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	38.07	6.36
			<i>For Schedule 80 Handrail, Add</i>	8.68	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.88	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.54	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-7.32	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.65	
			<i>For Stainless Steel, Add</i>	44.34	
			<i>For Aluminum, Satin Finish, Add</i>	9.31	
			<i>For Curved Rail, Add</i>	11.42	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	14.41	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	16.63	
			<i>For Galvanized Finish, Add</i>	6.65	
05 52 13 00-0046	LF		2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	45.80	6.36
			<i>For Schedule 80 Handrail, Add</i>	3.71	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.58	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.48	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-9.87	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-11.66	
			<i>For Stainless Steel, Add</i>	59.80	
			<i>For Aluminum, Satin Finish, Add</i>	12.56	
			<i>For Curved Rail, Add</i>	13.74	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	19.44	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	22.43	
			<i>For Galvanized Finish, Add</i>	8.97	
05 52 13 00-0047	LF		2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	52.18	6.36
			<i>For Schedule 80 Handrail, Add</i>	4.06	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-7.98	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-9.07	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-11.97	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-14.15	
			<i>For Stainless Steel, Add</i>	72.56	
			<i>For Aluminum, Satin Finish, Add</i>	15.24	
			<i>For Curved Rail, Add</i>	15.65	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	23.58	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	27.21	
			<i>For Galvanized Finish, Add</i>	10.88	
05 52 13 00-0048			Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13)</small>		
			Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049	LF		1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	44.62	6.68
			<i>For Schedule 80 Handrail, Add</i>	2.50	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.32	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.18	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-9.48	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-11.20	
			<i>For Stainless Steel, Add</i>	57.44	
			<i>For Aluminum, Satin Finish, Add</i>	12.06	
			<i>For Curved Rail, Add</i>	13.39	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	18.67	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	21.54	
			<i>For Galvanized Finish, Add</i>	8.62	



	Metals	05
	Metal Fabrications	05 50
	Metal Railings	05 52

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0050 LF 1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	45.56	6.68
For Schedule 80 Handrail, Add	2.92	
For 11 Gauge A513 Steel Tubing, Deduct	-6.53	
For 12 Gauge A513 Steel Tubing, Deduct	-7.42	
For 14 Gauge A513 Steel Tubing, Deduct	-9.79	
For 16 Gauge A513 Steel Tubing, Deduct	-11.57	
For Stainless Steel, Add	59.32	
For Aluminum, Satin Finish, Add	12.46	
For Curved Rail, Add	13.67	
For Aluminum, Clear Anodized Finish, Add	19.28	
For Aluminum, Dark Anodized Finish, Add	22.25	
For Galvanized Finish, Add	8.90	
05 52 13 00-0051 LF 1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	46.27	6.68
For Schedule 80 Handrail, Add	8.68	
For 11 Gauge A513 Steel Tubing, Deduct	-6.68	
For 12 Gauge A513 Steel Tubing, Deduct	-7.59	
For 14 Gauge A513 Steel Tubing, Deduct	-10.02	
For 16 Gauge A513 Steel Tubing, Deduct	-11.84	
For Stainless Steel, Add	60.74	
For Aluminum, Satin Finish, Add	12.76	
For Curved Rail, Add	13.88	
For Aluminum, Clear Anodized Finish, Add	19.74	
For Aluminum, Dark Anodized Finish, Add	22.78	
For Galvanized Finish, Add	9.11	
05 52 13 00-0052 LF 2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	57.05	6.68
For Schedule 80 Handrail, Add	3.71	
For 11 Gauge A513 Steel Tubing, Deduct	-9.05	
For 12 Gauge A513 Steel Tubing, Deduct	-10.29	
For 14 Gauge A513 Steel Tubing, Deduct	-13.58	
For 16 Gauge A513 Steel Tubing, Deduct	-16.05	
For Stainless Steel, Add	82.30	
For Aluminum, Satin Finish, Add	17.28	
For Curved Rail, Add	17.12	
For Aluminum, Clear Anodized Finish, Add	26.75	
For Aluminum, Dark Anodized Finish, Add	30.86	
For Galvanized Finish, Add	12.35	
05 52 13 00-0053 LF 2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	64.10	6.68
For Schedule 80 Handrail, Add	4.06	
For 11 Gauge A513 Steel Tubing, Deduct	-10.60	
For 12 Gauge A513 Steel Tubing, Deduct	-12.05	
For 14 Gauge A513 Steel Tubing, Deduct	-15.91	
For 16 Gauge A513 Steel Tubing, Deduct	-18.80	
For Stainless Steel, Add	96.40	
For Aluminum, Satin Finish, Add	20.24	
For Curved Rail, Add	19.23	
For Aluminum, Clear Anodized Finish, Add	31.33	
For Aluminum, Dark Anodized Finish, Add	36.15	
For Galvanized Finish, Add	14.46	
05 52 13 00-0054 Remove And Reinstall Pipe Railing <small>(05 52 13)</small>		
05 52 13 00-0055 LF Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing.....	23.85	
05 52 13 00-0056 LF Removal And Reinstallation Of Floor Mounted Pipe Railing.....	31.91	
05 52 13 00-0057 EA Install New Galvanized Steel Pipe Railing Bracket.....	63.47	
For Stainless Steel, Add	63.34	
05 53 Metal Gratings <small>(05 50)</small>		
05 53 13 Bar Gratings <small>(05 53)</small>		
05 53 13 00-0001 Welded Grating <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.		
05 53 13 00-0002 Steel, Welded Grating <small>(05 53 13 00-0001)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003 SF 3/4" x 1/8" Steel, Welded Grating.....	11.26	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.52	
For 304 Stainless Steel, Add	28.67	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	2.61	
For Crossbars At 2" On-Center, Add	0.96	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.78	
05 53 13 00-0004 SF 3/4" x 3/16" Steel, Welded Grating.....	14.96	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.15	
For 304 Stainless Steel, Add	40.54	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.69	
For Crossbars At 2" On-Center, Add	1.36	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.88	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0005	SF		1" x 1/8" Steel, Welded Grating	13.64	1.17
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.92	
			For 304 Stainless Steel, Add	36.31	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	3.30	
			For Crossbars At 2" On-Center, Add	1.22	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.84	
05 53 13 00-0006	SF		1" x 3/16" Steel, Welded Grating.....	18.65	1.17
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.77	
			For 304 Stainless Steel, Add	52.39	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.77	
			For Crossbars At 2" On-Center, Add	1.76	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.97	
05 53 13 00-0007	SF		1" x 1/4" Steel, Welded Grating	23.67	1.17
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.63	
			For 304 Stainless Steel, Add	68.50	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.23	
			For Crossbars At 2" On-Center, Add	2.30	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.09	
05 53 13 00-0008	SF		1-1/4" x 1/8" Steel, Welded Grating	16.04	1.17
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.33	
			For 304 Stainless Steel, Add	44.01	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.00	
			For Crossbars At 2" On-Center, Add	1.48	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.90	
05 53 13 00-0009	SF		1-1/4" x 3/16" Steel, Welded Grating	22.14	1.17
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.37	
			For 304 Stainless Steel, Add	63.59	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	5.78	
			For Crossbars At 2" On-Center, Add	2.14	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.06	
05 53 13 00-0010	SF		1-1/2" x 1/8" Steel, Welded Grating	18.44	1.17
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.74	
			For 304 Stainless Steel, Add	51.71	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.70	
			For Crossbars At 2" On-Center, Add	1.74	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.96	
05 53 13 00-0011	SF		1-1/2" x 3/16" Steel, Welded Grating	26.34	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.99	
			For 304 Stainless Steel, Add	75.37	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.86	
			For Crossbars At 2" On-Center, Add	2.54	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.50	
05 53 13 00-0012	SF		1-1/2" x 1/4" Steel, Welded Grating	33.98	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	5.29	
			For 304 Stainless Steel, Add	99.90	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	9.09	
			For Crossbars At 2" On-Center, Add	3.36	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.69	
05 53 13 00-0013	SF		1-3/4" x 3/16" Steel, Welded Grating	30.07	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	4.63	
			For 304 Stainless Steel, Add	87.34	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	7.95	
			For Crossbars At 2" On-Center, Add	2.94	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.60	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0014	SF		2" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	33.55 0.22 5.22 98.51 8.96 3.31 0.16 -2.68	1.43
05 53 13 00-0015	SF		2-1/4" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	37.25 0.22 5.85 110.39 10.04 3.71 0.16 -2.78	1.43
05 53 13 00-0016	SF		2-1/2" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	40.74 0.22 6.44 121.59 11.06 4.09 0.16 -2.86	1.43
05 53 13 00-0017			Pressure Locked Grating ^(05 53 13) Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018			Steel, Pressure Locked Grating ^(05 53 13 00-0017) Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019	SF		3/4" x 1/8" Steel, Pressure Locked Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Set In Place Without Bolting Or Tack Welding, Deduct	20.95 0.22 3.05 34.84 5.44 2.01 -2.03	1.17
05 53 13 00-0020	SF		3/4" x 3/16" Steel, Pressure Locked Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Set In Place Without Bolting Or Tack Welding, Deduct	25.71 0.22 3.83 43.74 6.83 2.53 -2.15	1.17
05 53 13 00-0021	SF		1" x 1/8" Steel, Pressure Locked Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	22.99 0.22 3.39 38.65 6.03 2.23 0.16 -2.08	1.17
05 53 13 00-0022	SF		1" x 3/16" Steel, Pressure Locked Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 7/16" On-Center, Add For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	31.15 0.22 4.73 53.92 41.79 8.42 3.11 0.16 -2.28	1.17
05 53 13 00-0023	SF		1-1/4" x 1/8" Steel, Pressure Locked Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	25.71 0.22 3.83 43.74 6.83 2.53 0.16 -2.15	1.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0024 SF 1-1/4" x 3/16" Steel, Pressure Locked Grating.....	34.93	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.35	
For 304 Stainless Steel, Add	60.99	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	9.52	
For Crossbars At 2" On-Center, Add	3.52	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.38	
05 53 13 00-0025 SF 1-1/2" x 1/8" Steel, Pressure Locked Grating.....	28.56	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.30	
For 304 Stainless Steel, Add	49.08	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	7.66	
For Crossbars At 2" On-Center, Add	2.83	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.22	
05 53 13 00-0026 SF 1-1/2" x 3/16" Steel, Pressure Locked Grating.....	39.42	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	6.00	
For 304 Stainless Steel, Add	68.40	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 7/16" On-Center, Add	53.01	
For Bearing Bars At 15/16" On-Center, Add	10.68	
For Crossbars At 2" On-Center, Add	3.95	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.83	
05 53 13 00-0027 SF 1-3/4" x 3/16" Steel, Pressure Locked Grating.....	43.41	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	6.65	
For 304 Stainless Steel, Add	75.87	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	11.84	
For Crossbars At 2" On-Center, Add	4.38	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.93	
05 53 13 00-0028 SF 2" x 3/16" Steel, Pressure Locked Grating.....	46.66	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	7.18	
For 304 Stainless Steel, Add	81.95	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	12.79	
For Crossbars At 2" On-Center, Add	4.73	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.01	
05 53 13 00-0029 SF 2-1/4" x 3/16" Steel, Pressure Locked Grating.....	49.77	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	7.69	
For 304 Stainless Steel, Add	87.77	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	13.70	
For Crossbars At 2" On-Center, Add	5.07	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.09	
05 53 13 00-0030 SF 2-1/2" x 3/16" Steel, Pressure Locked Grating.....	52.47	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	8.14	
For 304 Stainless Steel, Add	92.82	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	14.49	
For Crossbars At 2" On-Center, Add	5.36	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.16	
05 53 13 00-0031 Aluminum, Type 6063, Pressure Locked Grating (05 53 13 00-0017)		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0032 SF 3/4" x 1/8" Aluminum, Pressure Locked Grating.....	21.47	1.17
For Bearing Bars At 15/16" On-Center, Add	5.59	
For Crossbars At 2" On-Center, Add	2.07	
For Set In Place Without Bolting, Deduct	-2.04	
For Powder Coating, Add	2.87	
05 53 13 00-0033 SF 3/4" x 3/16" Aluminum, Pressure Locked Grating.....	29.31	1.17
For Bearing Bars At 15/16" On-Center, Add	7.88	
For Crossbars At 2" On-Center, Add	2.91	
For Set In Place Without Bolting, Deduct	-2.24	
For Powder Coating, Add	4.05	
05 53 13 00-0034 SF 1" x 1/8" Aluminum, Pressure Locked Grating.....	27.62	1.17
For Bearing Bars At 15/16" On-Center, Add	7.38	
For Crossbars At 2" On-Center, Add	2.73	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.19	
For Powder Coating, Add	3.79	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0035	SF		1" x 3/16" Aluminum, Pressure Locked Grating.....	37.76	1.17
			<i>For Bearing Bars At 7/16" On-Center, Add</i>	51.37	
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	10.35	
			<i>For Crossbars At 2" On-Center, Add</i>	3.83	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.45	
			<i>For Powder Coating, Add</i>	5.31	
05 53 13 00-0036	SF		1-1/4" x 1/8" Aluminum, Pressure Locked Grating.....	32.08	1.17
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	8.69	
			<i>For Crossbars At 2" On-Center, Add</i>	3.21	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.30	
			<i>For Powder Coating, Add</i>	4.46	
05 53 13 00-0037	SF		1-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	43.14	1.17
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	11.92	
			<i>For Crossbars At 2" On-Center, Add</i>	4.41	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.58	
			<i>For Powder Coating, Add</i>	6.12	
05 53 13 00-0038	SF		1-1/2" x 1/8" Aluminum, Pressure Locked Grating.....	36.28	1.17
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	9.91	
			<i>For Crossbars At 2" On-Center, Add</i>	3.67	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.41	
			<i>For Powder Coating, Add</i>	5.09	
05 53 13 00-0039	SF		1-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	48.69	1.17
			<i>For Bearing Bars At 7/16" On-Center, Add</i>	67.22	
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	13.54	
			<i>For Crossbars At 2" On-Center, Add</i>	5.01	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.72	
			<i>For Powder Coating, Add</i>	6.95	
05 53 13 00-0040	SF		1-3/4" x 3/16" Aluminum, Pressure Locked Grating.....	53.99	1.17
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	15.08	
			<i>For Crossbars At 2" On-Center, Add</i>	5.58	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.85	
			<i>For Powder Coating, Add</i>	7.75	
05 53 13 00-0041	SF		2" x 3/16" Aluminum, Pressure Locked Grating.....	60.28	1.17
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	16.92	
			<i>For Crossbars At 2" On-Center, Add</i>	6.26	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-3.01	
			<i>For Powder Coating, Add</i>	8.69	
05 53 13 00-0042	SF		2-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	65.22	1.17
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	18.36	
			<i>For Crossbars At 2" On-Center, Add</i>	6.79	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-3.13	
			<i>For Powder Coating, Add</i>	9.43	
05 53 13 00-0043	SF		2-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	71.10	1.17
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	20.08	
			<i>For Crossbars At 2" On-Center, Add</i>	7.43	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-3.28	
			<i>For Powder Coating, Add</i>	10.32	
05 53 13 00-0044			Swage Locked Grating <small>(05 53 13)</small>		
			Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
05 53 13 00-0045			Steel, Swage Locked Grating <small>(05 53 13 00-0044)</small>		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046	SF		1" x 3/16" Steel, Swaged Grating.....	34.05	1.17
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	2.92	
			<i>For 304 Stainless Steel, Add</i>	52.99	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	20.30	
			<i>For Crossbars At 2" On-Center, Add</i>	2.54	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-2.35	
05 53 13 00-0047	SF		1-1/4" x 3/16" Steel, Swaged Grating.....	37.96	1.17
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	3.28	
			<i>For 304 Stainless Steel, Add</i>	59.07	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	22.80	
			<i>For Crossbars At 2" On-Center, Add</i>	2.85	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-2.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0048 SF 1-1/2" x 3/16" Steel, Swaged Grating.....	41.56	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.56	
For 304 Stainless Steel, Add	64.16	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	24.77	
For Crossbars At 2" On-Center, Add	3.10	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.88	
05 53 13 00-0049 SF 1-3/4" x 3/16" Steel, Swaged Grating.....	47.55	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.11	
For 304 Stainless Steel, Add	74.10	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	28.60	
For Crossbars At 2" On-Center, Add	3.58	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.03	
05 53 13 00-0050 SF 2" x 3/16" Steel, Swaged Grating.....	53.58	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.67	
For 304 Stainless Steel, Add	84.09	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	32.46	
For Crossbars At 2" On-Center, Add	4.06	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.18	
05 53 13 00-0051 SF 2-1/4" x 3/16" Steel, Swaged Grating.....	59.57	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.22	
For 304 Stainless Steel, Add	94.03	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	36.29	
For Crossbars At 2" On-Center, Add	4.54	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.33	
05 53 13 00-0052 SF 2-1/2" x 3/16" Steel, Swaged Grating.....	65.60	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.77	
For 304 Stainless Steel, Add	104.02	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	40.15	
For Crossbars At 2" On-Center, Add	5.02	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.48	
05 53 13 00-0053 Aluminum Grating, Type 6063, Swage Locked (05 53 13 00-0044)		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0054 SF 1" x 1/8" Aluminum, Swaged Grating.....	25.46	1.17
For Bearing Bars At 15/16" On-Center, Add	14.80	
For Crossbars At 2" On-Center, Add	1.85	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.14	
For Powder Coating, Add	3.47	
05 53 13 00-0055 SF 1" x 3/16" Aluminum, Swaged Grating.....	33.20	1.17
For Bearing Bars At 15/16" On-Center, Add	19.76	
For Crossbars At 2" On-Center, Add	2.47	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.33	
For Powder Coating, Add	4.63	
05 53 13 00-0056 SF 1-1/4" x 1/8" Aluminum, Swaged Grating.....	28.94	1.17
For Bearing Bars At 15/16" On-Center, Add	17.03	
For Crossbars At 2" On-Center, Add	2.13	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.23	
For Powder Coating, Add	3.99	
05 53 13 00-0057 SF 1-1/4" x 3/16" Aluminum, Swaged Grating.....	38.41	1.17
For Bearing Bars At 15/16" On-Center, Add	23.09	
For Crossbars At 2" On-Center, Add	2.89	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.46	
For Powder Coating, Add	5.41	
05 53 13 00-0058 SF 1-1/2" x 1/8" Aluminum, Swaged Grating.....	33.06	1.17
For Bearing Bars At 15/16" On-Center, Add	19.67	
For Crossbars At 2" On-Center, Add	2.46	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.33	
For Powder Coating, Add	4.61	
05 53 13 00-0059 SF 1-1/2" x 3/16" Aluminum, Swaged Grating.....	43.99	1.17
For Bearing Bars At 15/16" On-Center, Add	26.66	
For Crossbars At 2" On-Center, Add	3.33	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.60	
For Powder Coating, Add	6.25	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0060 SF 1-3/4" x 3/16" Aluminum, Swaged Grating.....	50.41	1.17
For Bearing Bars At 15/16" On-Center, Add	30.77	
For Crossbars At 2" On-Center, Add	3.85	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.76	
For Powder Coating, Add	7.21	
05 53 13 00-0061 SF 2" x 3/16" Aluminum, Swaged Grating.....	56.80	1.17
For Bearing Bars At 15/16" On-Center, Add	34.86	
For Crossbars At 2" On-Center, Add	4.36	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.92	
For Powder Coating, Add	8.17	
05 53 13 00-0062 SF 2-1/4" x 3/16" Aluminum, Swaged Grating.....	63.22	1.17
For Bearing Bars At 15/16" On-Center, Add	38.97	
For Crossbars At 2" On-Center, Add	4.87	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-3.08	
For Powder Coating, Add	9.13	
05 53 13 00-0063 SF 2-1/2" x 3/16" Aluminum, Swaged Grating.....	69.61	1.17
For Bearing Bars At 15/16" On-Center, Add	43.06	
For Crossbars At 2" On-Center, Add	5.38	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-3.24	
For Powder Coating, Add	10.09	
05 53 13 00-0064 Riveted Grating <small>(05 53 13)</small>		
Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065 Steel, Riveted Grating <small>(05 53 13 00-0064)</small>		
Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066 SF 3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating.....	64.38	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.98	
For 304 Stainless Steel, Add	53.30	
For 5/8" Clear Opening, Add	21.41	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.11	
05 53 13 00-0067 SF 3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating.....	75.74	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.52	
For 304 Stainless Steel, Add	63.06	
For 5/8" Clear Opening, Add	25.33	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.40	
05 53 13 00-0068 SF 1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating.....	69.61	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.23	
For 304 Stainless Steel, Add	57.79	
For 5/8" Clear Opening, Add	23.21	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.24	
05 53 13 00-0069 SF 1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating.....	80.07	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.73	
For 304 Stainless Steel, Add	66.78	
For 5/8" Clear Opening, Add	26.82	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.50	
05 53 13 00-0070 SF 1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating.....	73.94	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.44	
For 304 Stainless Steel, Add	61.51	
For 5/8" Clear Opening, Add	24.71	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.35	
05 53 13 00-0071 SF 1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating.....	88.13	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.12	
For 304 Stainless Steel, Add	73.70	
For 5/8" Clear Opening, Add	29.60	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.71	
05 53 13 00-0072 SF 1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating.....	78.65	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.64	
For 304 Stainless Steel, Add	65.10	
For 5/8" Clear Opening, Add	26.15	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.81	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0073	SF	1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating	93.81	1.43
		<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
		<i>For Galvanized Steel, Add</i>	4.37	
		<i>For 304 Stainless Steel, Add</i>	78.13	
		<i>For 5/8" Clear Opening, Add</i>	31.38	
		<i>For Serrated Wear Surface, Add</i>	0.16	
		<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-4.19	
05 53 13 00-0074	SF	1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating	101.55	1.43
		<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
		<i>For Galvanized Steel, Add</i>	4.74	
		<i>For 304 Stainless Steel, Add</i>	84.77	
		<i>For 5/8" Clear Opening, Add</i>	34.05	
		<i>For Serrated Wear Surface, Add</i>	0.16	
		<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-4.38	
05 53 13 00-0075	SF	2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating	118.82	1.43
		<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
		<i>For Galvanized Steel, Add</i>	5.57	
		<i>For 304 Stainless Steel, Add</i>	99.61	
		<i>For 5/8" Clear Opening, Add</i>	40.01	
		<i>For Serrated Wear Surface, Add</i>	0.16	
		<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-4.82	
05 53 13 00-0076	SF	2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating	124.85	1.43
		<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
		<i>For Galvanized Steel, Add</i>	5.86	
		<i>For 304 Stainless Steel, Add</i>	104.79	
		<i>For 5/8" Clear Opening, Add</i>	42.09	
		<i>For Serrated Wear Surface, Add</i>	0.16	
		<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-4.97	
05 53 13 00-0077	SF	2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating	130.21	1.43
		<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
		<i>For Galvanized Steel, Add</i>	6.11	
		<i>For 304 Stainless Steel, Add</i>	109.39	
		<i>For 5/8" Clear Opening, Add</i>	43.94	
		<i>For Serrated Wear Surface, Add</i>	0.16	
		<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-5.10	
05 53 13 00-0078		Aluminum, Riveted Grating <small>(05 53 13 00-0064)</small>		
		Note: 1" clear opening, bolted in place and in all sizes.		
05 53 13 00-0079	SF	3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating	55.14	1.17
		<i>For 5/8" Clear Opening, Add</i>	18.22	
		<i>For Powder Coating, Add</i>	7.92	
		<i>For Set In Place Without Bolting, Deduct</i>	-2.88	
05 53 13 00-0080	SF	3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating	65.59	1.17
		<i>For 5/8" Clear Opening, Add</i>	21.82	
		<i>For Powder Coating, Add</i>	9.49	
		<i>For Set In Place Without Bolting, Deduct</i>	-3.14	
05 53 13 00-0081	SF	1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating	60.72	1.17
		<i>For 5/8" Clear Opening, Add</i>	20.14	
		<i>For Serrated Wear Surface, Add</i>	0.16	
		<i>For Powder Coating, Add</i>	8.76	
		<i>For Set In Place Without Bolting, Deduct</i>	-3.02	
05 53 13 00-0082	SF	1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating	70.93	1.17
		<i>For 5/8" Clear Opening, Add</i>	23.67	
		<i>For Serrated Wear Surface, Add</i>	0.16	
		<i>For Powder Coating, Add</i>	10.29	
		<i>For Set In Place Without Bolting, Deduct</i>	-3.28	
05 53 13 00-0083	SF	1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating	68.19	1.17
		<i>For 5/8" Clear Opening, Add</i>	22.72	
		<i>For Serrated Wear Surface, Add</i>	0.16	
		<i>For Powder Coating, Add</i>	9.88	
		<i>For Set In Place Without Bolting, Deduct</i>	-3.21	
05 53 13 00-0084	SF	1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating	82.36	1.17
		<i>For 5/8" Clear Opening, Add</i>	27.61	
		<i>For Serrated Wear Surface, Add</i>	0.16	
		<i>For Powder Coating, Add</i>	12.00	
		<i>For Set In Place Without Bolting, Deduct</i>	-3.56	
05 53 13 00-0085	SF	1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating	73.30	1.17
		<i>For 5/8" Clear Opening, Add</i>	24.48	
		<i>For Serrated Wear Surface, Add</i>	0.16	
		<i>For Powder Coating, Add</i>	10.65	
		<i>For Set In Place Without Bolting, Deduct</i>	-3.34	
05 53 13 00-0086	SF	1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating	91.29	1.17
		<i>For 5/8" Clear Opening, Add</i>	30.69	
		<i>For Serrated Wear Surface, Add</i>	0.16	
		<i>For Powder Coating, Add</i>	13.34	
		<i>For Set In Place Without Bolting, Deduct</i>	-3.79	
05 53 13 00-0087	SF	1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating	100.72	1.17
		<i>For 5/8" Clear Opening, Add</i>	33.94	
		<i>For Serrated Wear Surface, Add</i>	0.16	
		<i>For Powder Coating, Add</i>	14.76	
		<i>For Set In Place Without Bolting, Deduct</i>	-4.02	



	Metals	05
	Metal Fabrications	05 50
	Metal Gratings	05 53

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0088	SF		2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating..... <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	120.10 40.63 0.16 17.67 -4.51	1.17
05 53 13 00-0089	SF		2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating..... <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	131.08 44.42 0.16 19.31 -4.78	1.17
05 53 13 00-0090	SF		2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating..... <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	145.83 49.51 0.16 21.53 -5.15	1.17

05 54 Metal Floor Plates (05 50)

05 54 00 00-0001 Steel Floor Plates (05 54)

05 54 00 00-0002	SF		16 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	20.08	1.38
05 54 00 00-0003	SF		14 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	23.01	1.38
05 54 00 00-0004	SF		12 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	28.93	1.38
05 54 00 00-0005	SF		1/8" Steel Raised Or Diamond Pattern Floor Plates.....	38.77	1.48
05 54 00 00-0006	SF		1/4" Steel Raised Or Diamond Pattern Floor Plates.....	49.38	1.59

05 54 00 00-0007 Aluminum Alloy Floor Plates (05 54)

05 54 00 00-0008	SF		0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	29.05 4.01	1.17
05 54 00 00-0009	SF		0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	33.34 4.60	1.38
05 54 00 00-0010	SF		0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	37.64 5.20	1.48

05 54 00 00-0011 Type 304 Stainless Steel Floor Plates (05 54)

05 54 00 00-0012	SF		1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	28.62	1.59
05 54 00 00-0013	SF		3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	34.19	1.80
05 54 00 00-0014	SF		1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate.....	44.18	2.12

05 55 Metal Stair Treads and Nosings (05 50)

05 55 13 Metal Stair Treads (05 55)

05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads (05 55 13)

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.

05 55 13 00-0002	LF		8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	70.06 14.85	6.67
05 55 13 00-0003	LF		9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	77.16 16.62	6.67
05 55 13 00-0004	LF		10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	84.25 18.40	6.67
05 55 13 00-0005	LF		11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	91.37 20.18	6.67
05 55 13 00-0006	LF		12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	98.44 21.94	6.67

05 55 13 00-0007 Abrasive Cast Iron Stair Treads (05 55 13)

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.

05 55 13 00-0008	LF		8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	97.61	6.67
05 55 13 00-0009	LF		9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	108.13	6.67
05 55 13 00-0010	LF		10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	118.68	6.67
05 55 13 00-0011	LF		11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	129.20	6.67
05 55 13 00-0012	LF		12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	139.75	6.67

05 55 13 00-0013 Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads (05 55 13)

Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.

05 55 13 00-0014	LF		6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	36.83	6.67
05 55 13 00-0015	LF		9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	43.27	6.67
05 55 13 00-0016	LF		11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	46.11	6.67

05 55 13 00-0017 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads (05 55 13)

Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.

05 Metals**05 50 Metal Fabrications****05 55 Metal Stair Treads and Nosings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 13 00-0018	LF		8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	54.60	6.67
			<i>For Epoxy Sealed For Corrosive Environment, Add</i>	4.47	
			<i>For Two Color Tread, Add</i>	3.35	
05 55 13 00-0019	LF		9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	55.13	6.67
			<i>For Epoxy Sealed For Corrosive Environment, Add</i>	4.47	
			<i>For Two Color Tread, Add</i>	3.35	
05 55 13 00-0020	LF		11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	66.71	6.67
			<i>For Epoxy Sealed For Corrosive Environment, Add</i>	4.47	
			<i>For Two Color Tread, Add</i>	3.35	
05 55 13 00-0021	LF		12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	76.85	6.67
			<i>For Epoxy Sealed For Corrosive Environment, Add</i>	4.47	
			<i>For Two Color Tread, Add</i>	3.35	
05 55 13 00-0022	LF		15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	90.08	6.67
			<i>For Epoxy Sealed For Corrosive Environment, Add</i>	4.47	
			<i>For Two Color Tread, Add</i>	3.35	
05 55 13 00-0023			Stair Landing Treads <small>(05 55 13)</small>		
05 55 13 00-0024			Abrasive Cast Aluminum Stair Landing Treads <small>(05 55 13 00-0023)</small>		
			Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025	SF		5/16" Thick, Abrasive Cast Aluminum Landing Treads.....	98.44	6.67
			<i>For 3/8" Thick, Add</i>	21.94	
05 55 13 00-0026			Abrasive Cast Iron Stair Landing Treads <small>(05 55 13 00-0023)</small>		
			Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027	SF		3/8" Thick, Abrasive Cast Iron Landing Treads.....	139.75	6.67
05 55 13 00-0028			Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads <small>(05 55 13 00-0023)</small>		
			Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029	SF		9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads.....	91.24	6.67
			<i>For Epoxy Sealed For Corrosive Environment, Add</i>	4.47	
05 55 13 00-0030			Open Cast Iron Stair Tread <small>(05 55 13)</small>		
			Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031	RSR		3'-6" Wide, Open Cast Iron Stair Tread.....	703.57	42.39
			<i>For Closed Riser, Add</i>	60.31	
05 55 13 00-0032	RSR		4'-0" Wide, Open Cast Iron Stair Tread.....	788.52	48.75
			<i>For Closed Riser, Add</i>	67.43	
05 55 13 00-0033	RSR		5'-0" Wide, Open Cast Iron Stair Tread.....	868.30	57.23
			<i>For Closed Riser, Add</i>	74.17	
05 55 16 Metal Stair Nosings <small>(05 55)</small>					
05 55 16 00-0001			Abrasive Cast Aluminum Nosings <small>(05 55 16)</small>		
			Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002	LF		3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....	29.51	4.55
			<i>For 3/8" Thick, Add</i>	5.56	
05 55 16 00-0003	LF		4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....	36.37	4.55
			<i>For 3/8" Thick, Add</i>	7.27	
05 55 16 00-0004	LF		6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....	51.65	4.55
			<i>For 3/8" Thick, Add</i>	11.09	
05 55 16 00-0005			Abrasive Cast Iron Nosings <small>(05 55 16)</small>		
			Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006	LF		3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....	34.52	4.55
			<i>For 3/8" Thick, Add</i>	6.81	
05 55 16 00-0007	LF		4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....	42.96	4.55
			<i>For 3/8" Thick, Add</i>	8.92	
05 55 16 00-0008	LF		6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....	59.65	4.55
			<i>For 3/8" Thick, Add</i>	13.09	
05 55 16 00-0009			Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings <small>(05 55 16)</small>		
			Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010	LF		1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	24.86	4.55
05 55 16 00-0011	LF		3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	28.17	4.55
05 55 16 00-0012	LF		4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	30.70	4.55
05 55 16 00-0013	LF		6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	38.54	4.55
05 55 16 00-0014	LF		1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	25.76	4.55
05 55 16 00-0015	LF		3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	28.57	4.55
05 55 16 00-0016	LF		4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	31.37	4.55
05 55 16 00-0017	LF		3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	29.67	4.55



	Metals	05
	Metal Fabrications	05 50
	Metal Castings	05 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 56 Metal Castings (05 50)

05 56 00 00-0001	Castings <small>(05 56)</small>		
05 56 00 00-0002	LB Up To 150 LB, Miscellaneous Castings, Light Section	5.52	0.53
05 56 00 00-0003	LB >150 LB, Miscellaneous Castings, Heavy Section.....	9.51	0.42

05 58 Formed Metal Fabrications (05 50)

05 58 16 Formed Metal Enclosures (05 58)

05 58 16 00-0001	Drip Pan <small>(05 58 16)</small>		
05 58 16 00-0002	SF Stainless Steel Drip Pan	111.20	7.31
05 58 16 00-0003	SF Galvanized Steel Drip Pan.....	109.86	7.31
05 58 16 00-0004	SF Aluminum Drip Pan	77.25	5.84
05 58 16 00-0005	SF Plastic Drip Pan	20.71	5.12

05 58 23 Formed Metal Guards (05 58)

05 58 23 00-0001	Protective Guard Rails <small>(05 58 23)</small>		
Note: Includes painted finish.			
05 58 23 00-0002	2-Rib, 11 Gauge Steel, Protective Guard Rails <small>(05 58 23 00-0001)</small>		
Note: Steel King Armor Guard.			
05 58 23 00-0003	Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails <small>(05 58 23 00-0002)</small>		
Note: Excludes posts. Includes fasteners.			
05 58 23 00-0004	EA 1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	201.98	21.83
05 58 23 00-0005	EA 2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	237.51	21.83
05 58 23 00-0006	EA 3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	271.01	21.83
05 58 23 00-0007	EA 4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	306.54	21.83
05 58 23 00-0008	EA 5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	340.23	21.83
05 58 23 00-0009	EA 6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	383.92	21.83
05 58 23 00-0010	EA 7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	413.68	21.83
05 58 23 00-0011	EA 8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	459.76	21.83
05 58 23 00-0012	EA 9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	490.01	21.83
05 58 23 00-0013	EA 10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	511.61	21.83

05 58 23 00-0014	Posts For 2-Rib Guard Rails <small>(05 58 23 00-0002)</small>		
Note: Includes drilling, surface mounting plate and anchors.			
05 58 23 00-0015	EA 12" Height, Single Rail Post For 2-Rib Guard Rails	405.84	45.47
05 58 23 00-0016	EA 42" Height, Triple Rail Post For 2-Rib Guard Rails	529.21	45.47

05 58 23 00-0017	3-Rib, 11 Gauge Steel, Protective Guard Rails <small>(05 58 23 00-0001)</small>		
Note: Steel King Steel Guard.			

05 58 23 00-0018	Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails <small>(05 58 23 00-0017)</small>		
Note: Excludes posts. Includes fasteners.			
05 58 23 00-0019	EA 1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	223.39	21.83
05 58 23 00-0020	EA 2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	247.01	21.83
05 58 23 00-0021	EA 3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	276.48	21.83
05 58 23 00-0022	EA 4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	304.04	21.83
05 58 23 00-0023	EA 5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	335.91	21.83
05 58 23 00-0024	EA 6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	351.27	21.83
05 58 23 00-0025	EA 7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	388.24	21.83
05 58 23 00-0026	EA 8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	419.44	21.83
05 58 23 00-0027	EA 9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	452.56	21.83
05 58 23 00-0028	EA 10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	486.17	21.83

05 58 23 00-0029	Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails <small>(05 58 23 00-0017)</small>		
Note: Excludes posts. Includes fasteners and lift-out mounting plate.			
05 58 23 00-0030	EA 1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	329.67	21.83
05 58 23 00-0031	EA 2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	355.59	21.83
05 58 23 00-0032	EA 3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	382.48	21.83
05 58 23 00-0033	EA 4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	413.68	21.83
05 58 23 00-0034	EA 5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	444.88	21.83
05 58 23 00-0035	EA 6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	470.32	21.83
05 58 23 00-0036	EA 7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	499.61	21.83
05 58 23 00-0037	EA 8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	532.73	21.83
05 58 23 00-0038	EA 9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	568.25	21.83
05 58 23 00-0039	EA 10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	599.45	21.83

05 58 23 00-0040	Posts For 3-Rib Guard Rails <small>(05 58 23 00-0017)</small>		
Note: Includes drilling, surface mounting plate and anchors.			
05 58 23 00-0041	EA 18" Height, Single Rail Post For 3-Rib Guard Rails	356.69	45.47
05 58 23 00-0042	EA 42" Height, Double Rail Post For 3-Rib Guard Rails	456.73	45.47

05 Metals**05 50 Metal Fabrications****05 58 Formed Metal Fabrications**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 58 23 00-0043	All-Welded, Protective Guards <small>(05 58 23)</small> Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0044	All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>		
05 58 23 00-0045	EA 36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	465.44	60.62
05 58 23 00-0046	EA 48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	489.44	60.62
05 58 23 00-0047	EA 36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	503.36	60.62
05 58 23 00-0048	EA 48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	524.00	60.62
05 58 23 00-0049	EA 36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	519.20	60.62
05 58 23 00-0050	EA 48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	544.64	60.62
05 58 23 00-0051	EA 36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	551.84	60.62
05 58 23 00-0052	EA 48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	560.00	60.62
05 58 23 00-0053	EA 48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	598.89	60.62
05 58 23 00-0054	Corner Style, All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>		
05 58 23 00-0055	EA 24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	614.25	60.62
05 58 23 00-0056	EA 30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	643.05	60.62
05 58 23 00-0057	EA 24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	655.05	60.62
05 58 23 00-0058	EA 30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	714.10	60.62
05 58 23 00-0059	Warehouse Safety Bollards <small>(05 58 23)</small> Note: Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0060	EA 24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	286.03	45.47
05 58 23 00-0061	EA 36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	333.46	45.47
05 58 23 00-0062	EA 42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	383.67	45.47
05 58 23 00-0063	EA 36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	397.40	45.47
05 58 23 00-0064	EA 42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	429.09	45.47

05 59 Metal Specialties (05 50)**05 59 65 Metal Chain (05 59)**

05 59 65 00-0001	Alloy Steel Chain, Self Colored, Cut Length <small>(05 59 65)</small> Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.		
05 59 65 00-0002	LF 3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	6.40	1.02
	<i>For Plastic Dipped, Add</i>	0.65	
05 59 65 00-0003	LF 1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	7.67	1.36
	<i>For Plastic Dipped, Add</i>	0.74	
05 59 65 00-0004	LF 3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	12.10	2.71
	<i>For Plastic Dipped, Add</i>	1.00	
05 59 65 00-0005	LF 1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	19.42	4.57
	<i>For Plastic Dipped, Add</i>	1.54	
05 59 65 00-0006	LF 5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	32.77	7.73
	<i>For Plastic Dipped, Add</i>	2.60	
05 59 65 00-0007	LF 3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	46.00	10.84
	<i>For Plastic Dipped, Add</i>	3.65	
05 59 65 00-0008	LF 7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	62.74	13.56
	<i>For Plastic Dipped, Add</i>	5.34	
05 59 65 00-0009	LF 1" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	90.79	18.07
	<i>For Plastic Dipped, Add</i>	8.20	
05 59 65 00-0010	LF 1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	147.73	27.11
	<i>For Plastic Dipped, Add</i>	14.03	

05 59 69 Metal Panels (05 59)

05 59 69 00-0001	Woven And Welded Wire Cloth <small>(05 59 69)</small> Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.		
05 59 69 00-0002	Plain Steel Woven And Welded Wire Cloth Panels <small>(05 59 69 00-0001)</small>		
05 59 69 00-0003	2" Square Wire Spacing <small>(05 59 69 00-0002)</small>		
05 59 69 00-0004	SF 0.12" Thick Wire, 2" Spacing, 0.44 LB/SF Woven And Welded Wire Cloth Panels.....	9.56	2.89
	<i>For Up To 2, Add</i>	2.68	
	<i>For >2 To 6, Add</i>	1.54	
	<i>For >15 To 40, Deduct</i>	-0.29	
	<i>For >40, Deduct</i>	-0.86	
	<i>For Galvanized, Add</i>	2.51	
	<i>For Aluminum, Add</i>	3.42	
	<i>For 304 Stainless Steel, Add</i>	13.68	
	<i>For 316 Stainless Steel, Add</i>	15.68	
05 59 69 00-0005	SF 0.135" Thick Wire, 2" Spacing, 0.55 LB/SF Woven And Welded Wire Cloth Panels.....	10.28	3.01
	<i>For Up To 2, Add</i>	2.86	
	<i>For >2 To 6, Add</i>	1.63	
	<i>For >15 To 40, Deduct</i>	-0.31	
	<i>For >40, Deduct</i>	-0.94	
	<i>For Galvanized, Add</i>	2.75	
	<i>For Aluminum, Add</i>	3.76	
	<i>For 304 Stainless Steel, Add</i>	15.02	
	<i>For 316 Stainless Steel, Add</i>	17.22	



	Metals 05	
	Metal Fabrications 05 50	05
	Metal Specialties 05 59	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0006	SF		0.148" Thick Wire, 2" Spacing, 0.65 LB/SF Woven And Welded Wire Cloth Panels	10.93	3.35
			For Up To 2, Add	3.08	
			For >2 To 6, Add	1.76	
			For >15 To 40, Deduct	-0.32	
			For >40, Deduct	-0.97	
			For Galvanized, Add	2.85	
			For Aluminum, Add	3.89	
			For 304 Stainless Steel, Add	15.55	
			For 316 Stainless Steel, Add	17.82	
05 59 69 00-0007	SF		0.162" Thick Wire, 2" Spacing, 0.78 LB/SF Woven And Welded Wire Cloth Panels	11.53	3.49
			For Up To 2, Add	3.23	
			For >2 To 6, Add	1.85	
			For >15 To 40, Deduct	-0.34	
			For >40, Deduct	-1.03	
			For Galvanized, Add	3.03	
			For Aluminum, Add	4.13	
			For 304 Stainless Steel, Add	16.54	
			For 316 Stainless Steel, Add	18.95	
05 59 69 00-0008	SF		0.177" Thick Wire, 2" Spacing, 0.92 LB/SF Woven And Welded Wire Cloth Panels	12.61	3.91
			For Up To 2, Add	3.56	
			For >2 To 6, Add	2.04	
			For >15 To 40, Deduct	-0.37	
			For >40, Deduct	-1.11	
			For Galvanized, Add	3.26	
			For Aluminum, Add	4.44	
			For 304 Stainless Steel, Add	17.76	
			For 316 Stainless Steel, Add	20.35	
05 59 69 00-0009	SF		0.192" Thick Wire, 2" Spacing, 1.08 LB/SF Woven And Welded Wire Cloth Panels	14.48	4.35
			For Up To 2, Add	4.06	
			For >2 To 6, Add	2.32	
			For >15 To 40, Deduct	-0.43	
			For >40, Deduct	-1.30	
			For Galvanized, Add	3.82	
			For Aluminum, Add	5.21	
			For 304 Stainless Steel, Add	20.83	
			For 316 Stainless Steel, Add	23.87	
05 59 69 00-0010	SF		0.207" Thick Wire, 2" Spacing, 1.25 LB/SF Woven And Welded Wire Cloth Panels	16.43	4.79
			For Up To 2, Add	4.56	
			For >2 To 6, Add	2.60	
			For >15 To 40, Deduct	-0.50	
			For >40, Deduct	-1.51	
			For Galvanized, Add	4.42	
			For Aluminum, Add	6.03	
			For 304 Stainless Steel, Add	24.12	
			For 316 Stainless Steel, Add	27.64	
05 59 69 00-0011	SF		0.225" Thick Wire, 2" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels	18.82	5.31
			For Up To 2, Add	5.18	
			For >2 To 6, Add	2.94	
			For >15 To 40, Deduct	-0.59	
			For >40, Deduct	-1.76	
			For Galvanized, Add	5.17	
			For Aluminum, Add	7.04	
			For 304 Stainless Steel, Add	28.18	
			For 316 Stainless Steel, Add	32.29	
05 59 69 00-0012			1-3/4" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0013	SF		0.12" Thick Wire, 1-3/4" Spacing, 0.49 LB/SF Woven And Welded Wire Cloth Panels	10.03	3.07
			For Up To 2, Add	2.82	
			For >2 To 6, Add	1.62	
			For >15 To 40, Deduct	-0.30	
			For >40, Deduct	-0.89	
			For Galvanized, Add	2.61	
			For Aluminum, Add	3.56	
			For 304 Stainless Steel, Add	14.26	
			For 316 Stainless Steel, Add	16.34	
05 59 69 00-0014	SF		0.135" Thick Wire, 1-3/4" Spacing, 0.62 LB/SF Woven And Welded Wire Cloth Panels	11.03	3.23
			For Up To 2, Add	3.07	
			For >2 To 6, Add	1.75	
			For >15 To 40, Deduct	-0.34	
			For >40, Deduct	-1.01	
			For Galvanized, Add	2.96	
			For Aluminum, Add	4.03	
			For 304 Stainless Steel, Add	16.13	
			For 316 Stainless Steel, Add	18.48	
05 59 69 00-0015	SF		0.148" Thick Wire, 1-3/4" Spacing, 0.74 LB/SF Woven And Welded Wire Cloth Panels	11.86	3.63
			For Up To 2, Add	3.34	
			For >2 To 6, Add	1.91	
			For >15 To 40, Deduct	-0.35	
			For >40, Deduct	-1.05	
			For Galvanized, Add	3.09	
			For Aluminum, Add	4.21	
			For 304 Stainless Steel, Add	16.85	
			For 316 Stainless Steel, Add	19.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0016 SF 0.162" Thick Wire, 1-3/4" Spacing, 0.88 LB/SF Woven And Welded Wire Cloth Panels	12.39	3.74
For Up To 2, Add	3.48	
For >2 To 6, Add	1.99	
For >15 To 40, Deduct	-0.37	
For >40, Deduct	-1.11	
For Galvanized, Add	3.26	
For Aluminum, Add	4.44	
For 304 Stainless Steel, Add	17.76	
For 316 Stainless Steel, Add	20.35	
05 59 69 00-0017 SF 0.177" Thick Wire, 1-3/4" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels	13.55	4.20
For Up To 2, Add	3.83	
For >2 To 6, Add	2.19	
For >15 To 40, Deduct	-0.40	
For >40, Deduct	-1.19	
For Galvanized, Add	3.50	
For Aluminum, Add	4.78	
For 304 Stainless Steel, Add	19.10	
For 316 Stainless Steel, Add	21.89	
05 59 69 00-0018 SF 0.192" Thick Wire, 1-3/4" Spacing, 1.22 LB/SF Woven And Welded Wire Cloth Panels	15.59	4.69
For Up To 2, Add	4.37	
For >2 To 6, Add	2.50	
For >15 To 40, Deduct	-0.47	
For >40, Deduct	-1.40	
For Galvanized, Add	4.11	
For Aluminum, Add	5.60	
For 304 Stainless Steel, Add	22.42	
For 316 Stainless Steel, Add	25.69	
05 59 69 00-0019 SF 0.207" Thick Wire, 1-3/4" Spacing, 1.41 LB/SF Woven And Welded Wire Cloth Panels	17.65	5.14
For Up To 2, Add	4.90	
For >2 To 6, Add	2.79	
For >15 To 40, Deduct	-0.54	
For >40, Deduct	-1.62	
For Galvanized, Add	4.75	
For Aluminum, Add	6.48	
For 304 Stainless Steel, Add	25.92	
For 316 Stainless Steel, Add	29.70	
05 59 69 00-0020 SF 0.225" Thick Wire, 1-3/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels	20.26	5.71
For Up To 2, Add	5.58	
For >2 To 6, Add	3.17	
For >15 To 40, Deduct	-0.63	
For >40, Deduct	-1.89	
For Galvanized, Add	5.56	
For Aluminum, Add	7.58	
For 304 Stainless Steel, Add	30.31	
For 316 Stainless Steel, Add	34.73	
05 59 69 00-0021 1-1/2" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0022 SF 0.12" Thick Wire, 1-1/2" Spacing, 0.57 LB/SF Woven And Welded Wire Cloth Panels	11.11	3.41
For Up To 2, Add	3.13	
For >2 To 6, Add	1.79	
For >15 To 40, Deduct	-0.33	
For >40, Deduct	-0.99	
For Galvanized, Add	2.90	
For Aluminum, Add	3.95	
For 304 Stainless Steel, Add	15.79	
For 316 Stainless Steel, Add	18.10	
05 59 69 00-0023 SF 0.135" Thick Wire, 1-1/2" Spacing, 0.72 LB/SF Woven And Welded Wire Cloth Panels	12.22	3.58
For Up To 2, Add	3.40	
For >2 To 6, Add	1.94	
For >15 To 40, Deduct	-0.37	
For >40, Deduct	-1.12	
For Galvanized, Add	3.27	
For Aluminum, Add	4.46	
For 304 Stainless Steel, Add	17.86	
For 316 Stainless Steel, Add	20.46	
05 59 69 00-0024 SF 0.148" Thick Wire, 1-1/2" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels	12.97	3.97
For Up To 2, Add	3.65	
For >2 To 6, Add	2.09	
For >15 To 40, Deduct	-0.38	
For >40, Deduct	-1.15	
For Galvanized, Add	3.38	
For Aluminum, Add	4.61	
For 304 Stainless Steel, Add	18.43	
For 316 Stainless Steel, Add	21.12	
05 59 69 00-0025 SF 0.162" Thick Wire, 1-1/2" Spacing, 1.02 LB/SF Woven And Welded Wire Cloth Panels	13.68	4.13
For Up To 2, Add	3.84	
For >2 To 6, Add	2.19	
For >15 To 40, Deduct	-0.41	
For >40, Deduct	-1.23	
For Galvanized, Add	3.59	
For Aluminum, Add	4.90	
For 304 Stainless Steel, Add	19.61	
For 316 Stainless Steel, Add	22.47	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0026 SF 0.177" Thick Wire, 1-1/2" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels	14.91	4.62
For Up To 2, Add	4.21	
For >2 To 6, Add	2.42	
For >15 To 40, Deduct	-0.44	
For >40, Deduct	-1.31	
For Galvanized, Add	3.85	
For Aluminum, Add	5.25	
For 304 Stainless Steel, Add	21.00	
For 316 Stainless Steel, Add	24.06	
05 59 69 00-0027 SF 0.192" Thick Wire, 1-1/2" Spacing, 1.4 LB/SF Woven And Welded Wire Cloth Panels	17.03	5.12
For Up To 2, Add	4.77	
For >2 To 6, Add	2.73	
For >15 To 40, Deduct	-0.51	
For >40, Deduct	-1.53	
For Galvanized, Add	4.49	
For Aluminum, Add	6.13	
For 304 Stainless Steel, Add	24.50	
For 316 Stainless Steel, Add	28.08	
05 59 69 00-0028 SF 0.207" Thick Wire, 1-1/2" Spacing, 1.62 LB/SF Woven And Welded Wire Cloth Panels	19.31	5.63
For Up To 2, Add	5.36	
For >2 To 6, Add	3.06	
For >15 To 40, Deduct	-0.59	
For >40, Deduct	-1.77	
For Galvanized, Add	5.20	
For Aluminum, Add	7.09	
For 304 Stainless Steel, Add	28.34	
For 316 Stainless Steel, Add	32.48	
05 59 69 00-0029 SF 0.225" Thick Wire, 1-1/2" Spacing, 1.89 LB/SF Woven And Welded Wire Cloth Panels	22.09	6.24
For Up To 2, Add	6.08	
For >2 To 6, Add	3.46	
For >15 To 40, Deduct	-0.69	
For >40, Deduct	-2.07	
For Galvanized, Add	6.06	
For Aluminum, Add	8.27	
For 304 Stainless Steel, Add	33.07	
For 316 Stainless Steel, Add	37.90	
05 59 69 00-0030 1-1/4" Square Wire Spacing <small>(05 59 69 00-0002)</small>		
05 59 69 00-0031 SF 0.105" Thick Wire, 1-1/4" Spacing, 0.52 LB/SF Woven And Welded Wire Cloth Panels	11.36	3.68
For Up To 2, Add	3.26	
For >2 To 6, Add	1.87	
For >15 To 40, Deduct	-0.32	
For >40, Deduct	-0.97	
For Galvanized, Add	2.83	
For Aluminum, Add	3.86	
For 304 Stainless Steel, Add	15.46	
For 316 Stainless Steel, Add	17.71	
05 59 69 00-0032 SF 0.12" Thick Wire, 1-1/4" Spacing, 0.68 LB/SF Woven And Welded Wire Cloth Panels	12.28	3.86
For Up To 2, Add	3.49	
For >2 To 6, Add	2.00	
For >15 To 40, Deduct	-0.36	
For >40, Deduct	-1.07	
For Galvanized, Add	3.14	
For Aluminum, Add	4.28	
For 304 Stainless Steel, Add	17.11	
For 316 Stainless Steel, Add	19.61	
05 59 69 00-0033 SF 0.135" Thick Wire, 1-1/4" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels	13.35	4.02
For Up To 2, Add	3.74	
For >2 To 6, Add	2.14	
For >15 To 40, Deduct	-0.40	
For >40, Deduct	-1.20	
For Galvanized, Add	3.51	
For Aluminum, Add	4.79	
For 304 Stainless Steel, Add	19.15	
For 316 Stainless Steel, Add	21.95	
05 59 69 00-0034 SF 0.148" Thick Wire, 1-1/4" Spacing, 1.01 LB/SF Woven And Welded Wire Cloth Panels	13.77	4.10
For Up To 2, Add	3.85	
For >2 To 6, Add	2.20	
For >15 To 40, Deduct	-0.42	
For >40, Deduct	-1.25	
For Galvanized, Add	3.65	
For Aluminum, Add	4.98	
For 304 Stainless Steel, Add	19.92	
For 316 Stainless Steel, Add	22.83	
05 59 69 00-0035 SF 0.162" Thick Wire, 1-1/4" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels	14.92	4.63
For Up To 2, Add	4.22	
For >2 To 6, Add	2.42	
For >15 To 40, Deduct	-0.44	
For >40, Deduct	-1.31	
For Galvanized, Add	3.85	
For Aluminum, Add	5.24	
For 304 Stainless Steel, Add	20.98	
For 316 Stainless Steel, Add	24.04	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0036	SF		0.177" Thick Wire, 1-1/4" Spacing, 1.42 LB/SF Woven And Welded Wire Cloth Panels	16.80	5.21
			<i>For Up To 2, Add</i>	4.75	
			<i>For >2 To 6, Add</i>	2.72	
			<i>For >15 To 40, Deduct</i>	-0.49	
			<i>For >40, Deduct</i>	-1.48	
			<i>For Galvanized, Add</i>	4.34	
			<i>For Aluminum, Add</i>	5.92	
			<i>For 304 Stainless Steel, Add</i>	23.66	
			<i>For 316 Stainless Steel, Add</i>	27.12	
05 59 69 00-0037	SF		0.192" Thick Wire, 1-1/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels	19.12	5.75
			<i>For Up To 2, Add</i>	5.36	
			<i>For >2 To 6, Add</i>	3.06	
			<i>For >15 To 40, Deduct</i>	-0.57	
			<i>For >40, Deduct</i>	-1.72	
			<i>For Galvanized, Add</i>	5.04	
			<i>For Aluminum, Add</i>	6.88	
			<i>For 304 Stainless Steel, Add</i>	27.50	
			<i>For 316 Stainless Steel, Add</i>	31.52	
05 59 69 00-0038	SF		0.207" Thick Wire, 1-1/4" Spacing, 1.9 LB/SF Woven And Welded Wire Cloth Panels	21.57	6.28
			<i>For Up To 2, Add</i>	5.99	
			<i>For >2 To 6, Add</i>	3.41	
			<i>For >15 To 40, Deduct</i>	-0.66	
			<i>For >40, Deduct</i>	-1.98	
			<i>For Galvanized, Add</i>	5.81	
			<i>For Aluminum, Add</i>	7.92	
			<i>For 304 Stainless Steel, Add</i>	31.68	
			<i>For 316 Stainless Steel, Add</i>	36.30	
05 59 69 00-0039	SF		0.225" Thick Wire, 1-1/4" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels	24.72	6.97
			<i>For Up To 2, Add</i>	6.80	
			<i>For >2 To 6, Add</i>	3.87	
			<i>For >15 To 40, Deduct</i>	-0.77	
			<i>For >40, Deduct</i>	-2.31	
			<i>For Galvanized, Add</i>	6.78	
			<i>For Aluminum, Add</i>	9.25	
			<i>For 304 Stainless Steel, Add</i>	37.01	
			<i>For 316 Stainless Steel, Add</i>	42.41	
05 59 69 00-0040			1" Square Wire Spacing <small>(05 59 69 00-0002)</small>		
05 59 69 00-0041	SF		0.105" Thick Wire, 1" Spacing, 0.64 LB/SF Woven And Welded Wire Cloth Panels	12.96	4.31
			<i>For Up To 2, Add</i>	3.74	
			<i>For >2 To 6, Add</i>	2.16	
			<i>For >15 To 40, Deduct</i>	-0.36	
			<i>For >40, Deduct</i>	-1.08	
			<i>For Galvanized, Add</i>	3.17	
			<i>For Aluminum, Add</i>	4.33	
			<i>For 304 Stainless Steel, Add</i>	17.30	
			<i>For 316 Stainless Steel, Add</i>	19.83	
05 59 69 00-0042	SF		0.12" Thick Wire, 1" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels	13.90	4.49
			<i>For Up To 2, Add</i>	3.98	
			<i>For >2 To 6, Add</i>	2.29	
			<i>For >15 To 40, Deduct</i>	-0.40	
			<i>For >40, Deduct</i>	-1.19	
			<i>For Galvanized, Add</i>	3.48	
			<i>For Aluminum, Add</i>	4.75	
			<i>For 304 Stainless Steel, Add</i>	19.01	
			<i>For 316 Stainless Steel, Add</i>	21.78	
05 59 69 00-0043	SF		0.135" Thick Wire, 1" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels	14.48	4.69
			<i>For Up To 2, Add</i>	4.15	
			<i>For >2 To 6, Add</i>	2.39	
			<i>For >15 To 40, Deduct</i>	-0.41	
			<i>For >40, Deduct</i>	-1.23	
			<i>For Galvanized, Add</i>	3.62	
			<i>For Aluminum, Add</i>	4.93	
			<i>For 304 Stainless Steel, Add</i>	19.73	
			<i>For 316 Stainless Steel, Add</i>	22.61	
05 59 69 00-0044	SF		0.148" Thick Wire, 1" Spacing, 1.23 LB/SF Woven And Welded Wire Cloth Panels	15.54	4.76
			<i>For Up To 2, Add</i>	4.38	
			<i>For >2 To 6, Add</i>	2.51	
			<i>For >15 To 40, Deduct</i>	-0.46	
			<i>For >40, Deduct</i>	-1.38	
			<i>For Galvanized, Add</i>	4.04	
			<i>For Aluminum, Add</i>	5.51	
			<i>For 304 Stainless Steel, Add</i>	22.06	
			<i>For 316 Stainless Steel, Add</i>	25.27	
05 59 69 00-0045	SF		0.162" Thick Wire, 1" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels	17.26	5.36
			<i>For Up To 2, Add</i>	4.88	
			<i>For >2 To 6, Add</i>	2.80	
			<i>For >15 To 40, Deduct</i>	-0.51	
			<i>For >40, Deduct</i>	-1.52	
			<i>For Galvanized, Add</i>	4.45	
			<i>For Aluminum, Add</i>	6.07	
			<i>For 304 Stainless Steel, Add</i>	24.29	
			<i>For 316 Stainless Steel, Add</i>	27.83	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0046 SF 0.177" Thick Wire, 1" Spacing, 1.72 LB/SF Woven And Welded Wire Cloth Panels	19.38	6.00
For Up To 2, Add	5.48	
For >2 To 6, Add	3.14	
For >15 To 40, Deduct	-0.57	
For >40, Deduct	-1.71	
For Galvanized, Add	5.01	
For Aluminum, Add	6.83	
For 304 Stainless Steel, Add	27.31	
For 316 Stainless Steel, Add	31.30	
05 59 69 00-0047 SF 0.192" Thick Wire, 1" Spacing, 2.01 LB/SF Woven And Welded Wire Cloth Panels	22.18	6.66
For Up To 2, Add	6.21	
For >2 To 6, Add	3.55	
For >15 To 40, Deduct	-0.66	
For >40, Deduct	-1.99	
For Galvanized, Add	5.85	
For Aluminum, Add	7.97	
For 304 Stainless Steel, Add	31.90	
For 316 Stainless Steel, Add	36.55	
05 59 69 00-0048 SF 0.207" Thick Wire, 1" Spacing, 2.31 LB/SF Woven And Welded Wire Cloth Panels	24.97	7.27
For Up To 2, Add	6.93	
For >2 To 6, Add	3.95	
For >15 To 40, Deduct	-0.76	
For >40, Deduct	-2.29	
For Galvanized, Add	6.72	
For Aluminum, Add	9.17	
For 304 Stainless Steel, Add	36.67	
For 316 Stainless Steel, Add	42.02	
05 59 69 00-0049 SF 0.225" Thick Wire, 1" Spacing, 2.69 LB/SF Woven And Welded Wire Cloth Panels	28.52	8.05
For Up To 2, Add	7.85	
For >2 To 6, Add	4.46	
For >15 To 40, Deduct	-0.89	
For >40, Deduct	-2.67	
For Galvanized, Add	7.83	
For Aluminum, Add	10.67	
For 304 Stainless Steel, Add	42.70	
For 316 Stainless Steel, Add	48.92	
05 59 69 00-0050 3/4" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0051 SF 0.105" Thick Wire, 3/4" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels	13.12	4.30
For Up To 2, Add	3.77	
For >2 To 6, Add	2.17	
For >15 To 40, Deduct	-0.37	
For >40, Deduct	-1.11	
For Galvanized, Add	3.25	
For Aluminum, Add	4.43	
For 304 Stainless Steel, Add	17.74	
For 316 Stainless Steel, Add	20.32	
05 59 69 00-0052 SF 0.12" Thick Wire, 3/4" Spacing, 1.07 LB/SF Woven And Welded Wire Cloth Panels	14.65	4.83
For Up To 2, Add	4.22	
For >2 To 6, Add	2.43	
For >15 To 40, Deduct	-0.41	
For >40, Deduct	-1.23	
For Galvanized, Add	3.62	
For Aluminum, Add	4.93	
For 304 Stainless Steel, Add	19.73	
For 316 Stainless Steel, Add	22.61	
05 59 69 00-0053 SF 0.135" Thick Wire, 3/4" Spacing, 1.33 LB/SF Woven And Welded Wire Cloth Panels	16.20	5.45
For Up To 2, Add	4.69	
For >2 To 6, Add	2.71	
For >15 To 40, Deduct	-0.45	
For >40, Deduct	-1.34	
For Galvanized, Add	3.93	
For Aluminum, Add	5.36	
For 304 Stainless Steel, Add	21.46	
For 316 Stainless Steel, Add	24.59	
05 59 69 00-0054 SF 0.148" Thick Wire, 3/4" Spacing, 1.58 LB/SF Woven And Welded Wire Cloth Panels	17.54	5.81
For Up To 2, Add	5.06	
For >2 To 6, Add	2.92	
For >15 To 40, Deduct	-0.49	
For >40, Deduct	-1.47	
For Galvanized, Add	4.30	
For Aluminum, Add	5.87	
For 304 Stainless Steel, Add	23.47	
For 316 Stainless Steel, Add	26.90	
05 59 69 00-0055 SF 0.162" Thick Wire, 3/4" Spacing, 1.87 LB/SF Woven And Welded Wire Cloth Panels	20.29	6.54
For Up To 2, Add	5.80	
For >2 To 6, Add	3.34	
For >15 To 40, Deduct	-0.58	
For >40, Deduct	-1.74	
For Galvanized, Add	5.09	
For Aluminum, Add	6.94	
For 304 Stainless Steel, Add	27.77	
For 316 Stainless Steel, Add	31.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0056	SF		0.177" Thick Wire, 3/4" Spacing, 2.2 LB/SF Woven And Welded Wire Cloth Panels	23.36	7.32
			For Up To 2, Add	6.62	
			For >2 To 6, Add	3.80	
			For >15 To 40, Deduct	-0.68	
			For >40, Deduct	-2.04	
			For Galvanized, Add	5.99	
			For Aluminum, Add	8.17	
			For 304 Stainless Steel, Add	32.66	
			For 316 Stainless Steel, Add	37.43	
05 59 69 00-0057	SF		0.192" Thick Wire, 3/4" Spacing, 2.56 LB/SF Woven And Welded Wire Cloth Panels	26.62	8.08
			For Up To 2, Add	7.48	
			For >2 To 6, Add	4.28	
			For >15 To 40, Deduct	-0.79	
			For >40, Deduct	-2.38	
			For Galvanized, Add	6.97	
			For Aluminum, Add	9.50	
			For 304 Stainless Steel, Add	38.02	
			For 316 Stainless Steel, Add	43.56	
05 59 69 00-0058	SF		0.207" Thick Wire, 3/4" Spacing, 2.93 LB/SF Woven And Welded Wire Cloth Panels	29.85	8.79
			For Up To 2, Add	8.31	
			For >2 To 6, Add	4.74	
			For >15 To 40, Deduct	-0.91	
			For >40, Deduct	-2.72	
			For Galvanized, Add	7.98	
			For Aluminum, Add	10.88	
			For 304 Stainless Steel, Add	43.51	
			For 316 Stainless Steel, Add	49.86	
05 59 69 00-0059	SF		0.225" Thick Wire, 3/4" Spacing, 3.41 LB/SF Woven And Welded Wire Cloth Panels	34.05	9.72
			For Up To 2, Add	9.40	
			For >2 To 6, Add	5.35	
			For >15 To 40, Deduct	-1.06	
			For >40, Deduct	-3.17	
			For Galvanized, Add	9.28	
			For Aluminum, Add	12.66	
			For 304 Stainless Steel, Add	50.64	
			For 316 Stainless Steel, Add	58.03	
05 59 69 00-0060			1/2" Square Wire Spacing <small>(05 59 69 00-0002)</small>		
05 59 69 00-0061	SF		0.105" Thick Wire, 1/2" Spacing, 1.18 LB/SF Woven And Welded Wire Cloth Panels	13.69	4.61
			For Up To 2, Add	3.97	
			For >2 To 6, Add	2.29	
			For >15 To 40, Deduct	-0.38	
			For >40, Deduct	-1.13	
			For Galvanized, Add	3.32	
			For Aluminum, Add	4.53	
			For 304 Stainless Steel, Add	18.12	
			For 316 Stainless Steel, Add	20.76	
05 59 69 00-0062	SF		0.12" Thick Wire, 1/2" Spacing, 1.51 LB/SF Woven And Welded Wire Cloth Panels	16.02	5.59
			For Up To 2, Add	4.70	
			For >2 To 6, Add	2.72	
			For >15 To 40, Deduct	-0.43	
			For >40, Deduct	-1.28	
			For Galvanized, Add	3.76	
			For Aluminum, Add	5.12	
			For 304 Stainless Steel, Add	20.50	
			For 316 Stainless Steel, Add	23.49	
05 59 69 00-0063	SF		0.135" Thick Wire, 1/2" Spacing, 1.88 LB/SF Woven And Welded Wire Cloth Panels	19.36	6.63
			For Up To 2, Add	5.64	
			For >2 To 6, Add	3.26	
			For >15 To 40, Deduct	-0.53	
			For >40, Deduct	-1.58	
			For Galvanized, Add	4.63	
			For Aluminum, Add	6.32	
			For 304 Stainless Steel, Add	25.27	
			For 316 Stainless Steel, Add	28.96	
05 59 69 00-0064	SF		0.148" Thick Wire, 1/2" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels	22.34	7.43
			For Up To 2, Add	6.45	
			For >2 To 6, Add	3.72	
			For >15 To 40, Deduct	-0.62	
			For >40, Deduct	-1.86	
			For Galvanized, Add	5.47	
			For Aluminum, Add	7.46	
			For 304 Stainless Steel, Add	29.83	
			For 316 Stainless Steel, Add	34.18	
05 59 69 00-0065	SF		0.162" Thick Wire, 1/2" Spacing, 2.61 LB/SF Woven And Welded Wire Cloth Panels	25.68	8.30
			For Up To 2, Add	7.35	
			For >2 To 6, Add	4.23	
			For >15 To 40, Deduct	-0.73	
			For >40, Deduct	-2.19	
			For Galvanized, Add	6.43	
			For Aluminum, Add	8.77	
			For 304 Stainless Steel, Add	35.09	
			For 316 Stainless Steel, Add	40.21	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0066	SF		0.177" Thick Wire, 1/2" Spacing, 3.06 LB/SF Woven And Welded Wire Cloth Panels	29.47	9.24
			For Up To 2, Add	8.36	
			For >2 To 6, Add	4.80	
			For >15 To 40, Deduct	-0.86	
			For >40, Deduct	-2.57	
			For Galvanized, Add	7.54	
			For Aluminum, Add	10.28	
			For 304 Stainless Steel, Add	41.14	
			For 316 Stainless Steel, Add	47.14	
05 59 69 00-0067	SF		0.192" Thick Wire, 1/2" Spacing, 3.54 LB/SF Woven And Welded Wire Cloth Panels	33.38	10.17
			For Up To 2, Add	9.39	
			For >2 To 6, Add	5.37	
			For >15 To 40, Deduct	-0.99	
			For >40, Deduct	-2.97	
			For Galvanized, Add	8.73	
			For Aluminum, Add	11.90	
			For 304 Stainless Steel, Add	47.59	
			For 316 Stainless Steel, Add	54.53	
05 59 69 00-0068	SF		0.207" Thick Wire, 1/2" Spacing, 4.04 LB/SF Woven And Welded Wire Cloth Panels	37.32	11.02
			For Up To 2, Add	10.40	
			For >2 To 6, Add	5.94	
			For >15 To 40, Deduct	-1.13	
			For >40, Deduct	-3.39	
			For Galvanized, Add	9.96	
			For Aluminum, Add	13.58	
			For 304 Stainless Steel, Add	54.31	
			For 316 Stainless Steel, Add	62.23	
05 59 69 00-0069	SF		0.225" Thick Wire, 1/2" Spacing, 4.68 LB/SF Woven And Welded Wire Cloth Panels	38.79	12.13
			For Up To 2, Add	10.99	
			For >2 To 6, Add	6.30	
			For >15 To 40, Deduct	-1.13	
			For >40, Deduct	-3.39	
			For Galvanized, Add	9.96	
			For Aluminum, Add	13.58	
			For 304 Stainless Steel, Add	54.31	
			For 316 Stainless Steel, Add	62.23	
05 59 69 00-0070			Expanded Metal Panels <small>(05 59 69)</small>		
			Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.		
05 59 69 00-0071			Plain Flattened Expanded Metal Diamond Shape Panels <small>(05 59 69 00-0070)</small>		
			Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.		
05 59 69 00-0072	SF		1/4" #20-F Plain Expanded Metal Panel, 0.82 LB/SF	11.05	3.97
			For Galvanized, Add	2.53	
			For Aluminum, Add	3.46	
			For 304 Stainless Steel, Add	13.82	
			For 316 Stainless Steel, Add	15.84	
05 59 69 00-0073	SF		1/4" #18-F Plain Expanded Metal Panel, 1.08 LB/SF	13.94	4.35
			For Galvanized, Add	3.58	
			For Aluminum, Add	4.88	
			For 304 Stainless Steel, Add	19.54	
			For 316 Stainless Steel, Add	22.39	
05 59 69 00-0074	SF		1/2" #20-F Plain Expanded Metal Panel, 0.40 LB/SF	7.95	3.07
			For Galvanized, Add	1.70	
			For Aluminum, Add	2.32	
			For 304 Stainless Steel, Add	9.26	
			For 316 Stainless Steel, Add	10.62	
05 59 69 00-0075	SF		1/2" #18-F Plain Expanded Metal Panel, 0.66 LB/SF	8.68	3.35
			For Galvanized, Add	1.86	
			For Aluminum, Add	2.54	
			For 304 Stainless Steel, Add	10.15	
			For 316 Stainless Steel, Add	11.63	
05 59 69 00-0076	SF		1/2" #16-F Plain Expanded Metal Panel, 0.82 LB/SF	9.81	3.97
			For Galvanized, Add	1.99	
			For Aluminum, Add	2.71	
			For 304 Stainless Steel, Add	10.85	
			For 316 Stainless Steel, Add	12.43	
05 59 69 00-0077	SF		1/2" #13-F Plain Expanded Metal Panel, 1.4 LB/SF	12.56	5.12
			For Galvanized, Add	2.53	
			For Aluminum, Add	3.44	
			For 304 Stainless Steel, Add	13.78	
			For 316 Stainless Steel, Add	15.79	
05 59 69 00-0078	SF		3/4" #16-F Plain Expanded Metal Panel, 0.51 LB/SF	6.91	3.01
			For Galvanized, Add	1.27	
			For Aluminum, Add	1.73	
			For 304 Stainless Steel, Add	6.94	
			For 316 Stainless Steel, Add	7.95	
05 59 69 00-0079	SF		3/4" #14-F Plain Expanded Metal Panel, 0.63 LB/SF	7.75	3.23
			For Galvanized, Add	1.51	
			For Aluminum, Add	2.06	
			For 304 Stainless Steel, Add	8.26	
			For 316 Stainless Steel, Add	9.46	

05	Metals
05 50	Metal Fabrications
05 59	Metal Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0080 SF 3/4" #13-F Plain Expanded Metal Panel, 0.75 LB/SF	8.86	3.63
<i>For Galvanized, Add</i>	1.77	
<i>For Aluminum, Add</i>	2.41	
<i>For 304 Stainless Steel, Add</i>	9.65	
<i>For 316 Stainless Steel, Add</i>	11.06	
05 59 69 00-0081 SF 3/4" #9-F Plain Expanded Metal Panel, 1.50 LB/SF	13.94	6.00
<i>For Galvanized, Add</i>	2.61	
<i>For Aluminum, Add</i>	3.56	
<i>For 304 Stainless Steel, Add</i>	14.26	
<i>For 316 Stainless Steel, Add</i>	16.34	
05 59 69 00-0082 SF 1" #16-F Plain Expanded Metal Panel, 0.41 LB/SF	7.71	3.68
<i>For Galvanized, Add</i>	1.23	
<i>For Aluminum, Add</i>	1.67	
<i>For 304 Stainless Steel, Add</i>	6.70	
<i>For 316 Stainless Steel, Add</i>	7.67	
05 59 69 00-0083 SF 1-1/2" #16-F Plain Expanded Metal Panel, 0.38 LB/SF	6.67	2.89
<i>For Galvanized, Add</i>	1.24	
<i>For Aluminum, Add</i>	1.69	
<i>For 304 Stainless Steel, Add</i>	6.74	
<i>For 316 Stainless Steel, Add</i>	7.73	
05 59 69 00-0084 SF 1-1/2" #13-F Plain Expanded Metal Panel, 0.57 LB/SF	7.69	3.41
<i>For Galvanized, Add</i>	1.39	
<i>For Aluminum, Add</i>	1.90	
<i>For 304 Stainless Steel, Add</i>	7.58	
<i>For 316 Stainless Steel, Add</i>	8.69	
05 59 69 00-0085 SF 1-1/2" #9-F Plain Expanded Metal Panel, 1.14 LB/SF	11.97	4.61
<i>For Galvanized, Add</i>	2.57	
<i>For Aluminum, Add</i>	3.50	
<i>For 304 Stainless Steel, Add</i>	13.99	
<i>For 316 Stainless Steel, Add</i>	16.03	

END OF SECTION 05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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06 Wood, Plastics, and Composites

06 01 Maintenance of Wood, Plastics, and Composites ⁽⁰⁶⁾

06 01 20 Maintenance of Finish Carpentry ^(06 01)

06 01 20 91 Finish Carpentry Restoration ^(06 01 20)

06 01 20 91-0001	Wood Trim Repair ^(06 01 20 91)	9.17
06 01 20 91-0002	SF Restoration Of Existing Decorative Woodwork Note: Includes stripping to bare wood, filling or patching, stain or paint to match existing.	

06 05 Common Work Results for Wood, Plastics, and Composites ⁽⁰⁶⁾

06 05 23 Wood, Plastic, and Composite Fastenings ^(06 05)

Note: For additional fasteners above normal conditions, for replacing existing fasteners, for relocating existing materials or fixtures, or for different fasteners required due to load limits on standard fasteners.

06 05 23 00-0001 Threaded Anchor Bolts ^(06 05 23)

Note: Threaded on two ends with two nuts and flat washers.

06 05 23 00-0002	EA 1/2" Diameter x 4" Long, Threaded Anchor Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.22 -0.43 -0.98 -1.96 -3.37 -4.79
06 05 23 00-0003	EA 1/2" Diameter x 7-1/2" Long, Threaded Anchor Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.28 -0.47 -1.13 -2.26 -3.86 -5.46
06 05 23 00-0004	EA 3/4" Diameter x 7-1/2" Long, Threaded Anchor Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	18.85 -0.47 -1.17 -2.34 -3.98 -5.62
06 05 23 00-0005	EA 3/4" Diameter x 12" Long, Threaded Anchor Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	36.47 -0.64 -1.87 -3.74 -6.24 -8.75

06 05 23 00-0006 Framing Anchors ^(06 05 23)

Note: Including nails.

06 05 23 00-0007	EA 1-7/16" x 2-1/2", 18 Gauge, Galvanized Framing Angle Anchor (Simpson Strong Tie® A34) <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	7.59 -0.35 -0.71 -1.42 -2.47 -3.53	3.63
06 05 23 00-0008	EA 1-7/16" x 4-1/2", 18 Gauge, Galvanized Framing Angle Anchor (Simpson Strong Tie® A35) <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.49 -0.39 -0.80 -1.59 -2.78 -3.97	4.00

06 05 23 00-0009 Angle Anchors ^(06 05 23)

Note: Including nails.

06 05 23 00-0010	EA 2" x 1-1/2" x 1-3/8" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A21) <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	7.68 -0.35 -0.71 -1.42 -2.48 -3.54	3.63
06 05 23 00-0011	EA 2" x 1-1/2" x 2-3/4" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A23) <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.40 -0.37 -0.76 -1.53 -2.66 -3.80	3.88

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0012 EA 3-7/8" x 2" x 2-1/2" Wide, 12 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A24)	13.92	4.00
For>10 To 50, Deduct	-0.39	
For>50 To 100, Deduct	-0.93	
For>100 To 250, Deduct	-1.86	
For>250 To 500, Deduct	-3.19	
For>500, Deduct	-4.51	
06 05 23 00-0013 EA 3" x 3" x 1-1/2" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A33)	12.62	4.00
For>10 To 50, Deduct	-0.39	
For>50 To 100, Deduct	-0.90	
For>100 To 250, Deduct	-1.80	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-4.38	
06 05 23 00-0014 EA 4-9/16" x 4-9/16" x 1-1/2" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A44)	13.80	4.49
For>10 To 50, Deduct	-0.43	
For>50 To 100, Deduct	-0.99	
For>100 To 250, Deduct	-1.98	
For>250 To 500, Deduct	-3.39	
For>500, Deduct	-4.81	
06 05 23 00-0015 EA 5-7/8" x 5-7/8" x 1-1/2" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A66)	15.60	4.73
For>10 To 50, Deduct	-0.46	
For>50 To 100, Deduct	-1.08	
For>100 To 250, Deduct	-2.16	
For>250 To 500, Deduct	-3.71	
For>500, Deduct	-5.25	
06 05 23 00-0016 Reinforcing Angle Wood Construction Connectors (06 05 23)		
Note: Including nails.		
06 05 23 00-0017 EA 3" x 3-3/4", 16 Gauge, Galvanized Reinforcing Angle Wood Construction Connectors (Simpson Strong Tie® L30).....	8.36	3.39
For>10 To 50, Deduct	-0.35	
For>50 To 100, Deduct	-0.73	
For>100 To 250, Deduct	-1.46	
For>250 To 500, Deduct	-2.53	
For>500, Deduct	-3.60	
06 05 23 00-0018 EA 5" x 3-3/4", 16 Gauge, Galvanized Reinforcing Angle Wood Construction Connectors (Simpson Strong Tie® L50).....	10.20	3.63
For>10 To 50, Deduct	-0.37	
For>50 To 100, Deduct	-0.81	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.78	
For>500, Deduct	-3.96	
06 05 23 00-0019 EA 7" x 3-3/4", 16 Gauge, Galvanized Reinforcing Angle Wood Construction Connectors (Simpson Strong Tie® L70).....	11.52	3.75
For>10 To 50, Deduct	-0.38	
For>50 To 100, Deduct	-0.86	
For>100 To 250, Deduct	-1.71	
For>250 To 500, Deduct	-2.95	
For>500, Deduct	-4.18	
06 05 23 00-0020 EA 9" x 3-3/4", 16 Gauge, Galvanized Reinforcing Angle Wood Construction Connectors (Simpson Strong Tie® L90).....	12.73	3.88
For>10 To 50, Deduct	-0.40	
For>50 To 100, Deduct	-0.91	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-4.45	
06 05 23 00-0021 EA 3-3/8" x 3-3/4", 18 Gauge, Galvanized Reinforcing Skewable Angle Wood Construction Connectors (Simpson Strong Tie® LS30).....	9.06	3.39
For>10 To 50, Deduct	-0.35	
For>50 To 100, Deduct	-0.75	
For>100 To 250, Deduct	-1.49	
For>250 To 500, Deduct	-2.58	
For>500, Deduct	-3.67	
06 05 23 00-0022 EA 4-7/8" x 3-3/4", 18 Gauge, Galvanized Reinforcing Skewable Angle Wood Construction Connectors (Simpson Strong Tie® LS50).....	9.96	3.63
For>10 To 50, Deduct	-0.37	
For>50 To 100, Deduct	-0.80	
For>100 To 250, Deduct	-1.60	
For>250 To 500, Deduct	-2.77	
For>500, Deduct	-3.93	
06 05 23 00-0023 EA 6-3/8" x 3-3/4", 18 Gauge, Galvanized Reinforcing Skewable Angle Wood Construction Connectors (Simpson Strong Tie® LS70).....	11.46	3.75
For>10 To 50, Deduct	-0.38	
For>50 To 100, Deduct	-0.86	
For>100 To 250, Deduct	-1.71	
For>250 To 500, Deduct	-2.94	
For>500, Deduct	-4.18	
06 05 23 00-0024 EA 7-7/8" x 3-3/4", 18 Gauge, Galvanized Reinforcing Skewable Angle Wood Construction Connectors (Simpson Strong Tie® LS90).....	13.47	3.88
For>10 To 50, Deduct	-0.40	
For>50 To 100, Deduct	-0.93	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-3.20	
For>500, Deduct	-4.53	
06 05 23 00-0025 Hold Down Anchors (06 05 23)		
Note: Including nails.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0026 EA 8-5/8" High x 2-1/2" Wide x 2-1/4" Deep, 12 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD3B).....	59.04	
<i>For >10 To 50, Deduct</i>	-1.88	
<i>For >50 To 100, Deduct</i>	-4.29	
<i>For >100 To 250, Deduct</i>	-8.59	
<i>For >250 To 500, Deduct</i>	-14.76	
<i>For >500, Deduct</i>	-20.93	
06 05 23 00-0027 EA 9-3/8" High x 2-1/2" Wide x 2-1/2" Deep, 10 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD5B).....	80.98	
<i>For >10 To 50, Deduct</i>	-1.94	
<i>For >50 To 100, Deduct</i>	-4.93	
<i>For >100 To 250, Deduct</i>	-9.87	
<i>For >250 To 500, Deduct</i>	-16.74	
<i>For >500, Deduct</i>	-23.61	
06 05 23 00-0028 EA 12-3/8" High x 2-1/2" Wide x 2-1/2" Deep, 10 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD7B).....	99.07	
<i>For >10 To 50, Deduct</i>	-2.06	
<i>For >50 To 100, Deduct</i>	-5.57	
<i>For >100 To 250, Deduct</i>	-11.14	
<i>For >250 To 500, Deduct</i>	-18.76	
<i>For >500, Deduct</i>	-26.39	
06 05 23 00-0029 EA 14" High x 2-1/2" Wide x 2-1/2" Deep, 7 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD9B).....	116.61	
<i>For >10 To 50, Deduct</i>	-2.30	
<i>For >50 To 100, Deduct</i>	-6.37	
<i>For >100 To 250, Deduct</i>	-12.74	
<i>For >250 To 500, Deduct</i>	-21.41	
<i>For >500, Deduct</i>	-30.08	
06 05 23 00-0030 EA 20-5/16" High x 3-1/2" Wide x 4-1/2" Deep, 3 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD12).....	186.89	
<i>For >10 To 50, Deduct</i>	-2.91	
<i>For >50 To 100, Deduct</i>	-9.04	
<i>For >100 To 250, Deduct</i>	-18.07	
<i>For >250 To 500, Deduct</i>	-30.02	
<i>For >500, Deduct</i>	-41.96	
06 05 23 00-0031 EA 24-1/2" High x 3-1/2" Wide x 4-1/2" Deep, 3 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD19).....	249.52	
<i>For >10 To 50, Deduct</i>	-3.03	
<i>For >50 To 100, Deduct</i>	-10.78	
<i>For >100 To 250, Deduct</i>	-21.57	
<i>For >250 To 500, Deduct</i>	-35.38	
<i>For >500, Deduct</i>	-49.19	
06 05 23 00-0032 EA 8-11/16" Height x 3" Wide x 3-1/4" Deep, 14 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU2-SDS2.5).....	68.68	
<i>For >10 To 50, Deduct</i>	-1.88	
<i>For >50 To 100, Deduct</i>	-4.53	
<i>For >100 To 250, Deduct</i>	-9.07	
<i>For >250 To 500, Deduct</i>	-15.48	
<i>For >500, Deduct</i>	-21.90	
06 05 23 00-0033 EA 10-15/16" Height x 3" Wide x 3-1/4" Deep, 14 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU4-SDS2.5).....	75.65	
<i>For >10 To 50, Deduct</i>	-1.94	
<i>For >50 To 100, Deduct</i>	-4.80	
<i>For >100 To 250, Deduct</i>	-9.60	
<i>For >250 To 500, Deduct</i>	-16.34	
<i>For >500, Deduct</i>	-23.08	
06 05 23 00-0034 EA 13-3/16" Height x 3" Wide x 3-1/4" Deep, 14 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU5-SDS2.5).....	84.47	
<i>For >10 To 50, Deduct</i>	-2.06	
<i>For >50 To 100, Deduct</i>	-5.20	
<i>For >100 To 250, Deduct</i>	-10.41	
<i>For >250 To 500, Deduct</i>	-17.67	
<i>For >500, Deduct</i>	-24.93	
06 05 23 00-0035 EA 16-5/8" Height x 3" Wide x 3-1/2" Deep, 10 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU8-SDS2.5).....	103.70	
<i>For >10 To 50, Deduct</i>	-2.30	
<i>For >50 To 100, Deduct</i>	-6.05	
<i>For >100 To 250, Deduct</i>	-12.09	
<i>For >250 To 500, Deduct</i>	-20.44	
<i>For >500, Deduct</i>	-28.79	
06 05 23 00-0036 EA 22-1/4" Height x 3" Wide x 3-1/2" Deep, 10 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU11-SDS2.5).....	133.40	
<i>For >10 To 50, Deduct</i>	-2.91	
<i>For >50 To 100, Deduct</i>	-7.70	
<i>For >100 To 250, Deduct</i>	-15.40	
<i>For >250 To 500, Deduct</i>	-26.00	
<i>For >500, Deduct</i>	-36.61	
06 05 23 00-0037 EA 25-11/16" Height x 3" Wide x 3-1/2" Deep, 7 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU14-SDS2.5).....	148.48	
<i>For >10 To 50, Deduct</i>	-3.03	
<i>For >50 To 100, Deduct</i>	-8.26	
<i>For >100 To 250, Deduct</i>	-16.51	
<i>For >250 To 500, Deduct</i>	-27.80	
<i>For >500, Deduct</i>	-39.09	

06 05 23 00-0038 Joist And Beam Hangers (06 05 23)
 Note: Including nails.

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0039 EA 18 Gauge, Galvanized Joist Hanger, For 2" x 4" Joist Also Acceptable For Beam Hangers (Simpson Strong Tie® LU24).....	8.02	3.39
For >10 To 50, Deduct	-0.35	
For >50 To 100, Deduct	-0.72	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-2.50	
For >500, Deduct	-3.57	
06 05 23 00-0040 EA 18 Gauge, Galvanized Joist Hanger, For 2" x 6"-2" x 10" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® LU28).....	8.90	3.63
For >10 To 50, Deduct	-0.37	
For >50 To 100, Deduct	-0.77	
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.83	
06 05 23 00-0041 EA 16 Gauge, Galvanized Joist Hanger, For 3" x 6"-3" x 9" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® LUS36).....	12.15	3.75
For >10 To 50, Deduct	-0.38	
For >50 To 100, Deduct	-0.87	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-4.25	
06 05 23 00-0042 EA 16 Gauge, Galvanized Joist Hanger, For 3" x 10"-3" x 14" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® LUS310).....	13.18	3.88
For >10 To 50, Deduct	-0.40	
For >50 To 100, Deduct	-0.93	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-3.17	
For >500, Deduct	-4.50	
06 05 23 00-0043 EA 14 Gauge, Galvanized Joist Hanger, For 4" x 6"-4" x 8" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® HUS46).....	19.68	4.12
For >10 To 50, Deduct	-0.41	
For >50 To 100, Deduct	-1.11	
For >100 To 250, Deduct	-2.21	
For >250 To 500, Deduct	-3.73	
For >500, Deduct	-5.24	
06 05 23 00-0044 EA 14 Gauge, Galvanized Joist Hanger, For 4" x 10"-4" x 14" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® HUS412).....	23.28	4.25
For >10 To 50, Deduct	-0.42	
For >50 To 100, Deduct	-1.21	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-4.05	
For >500, Deduct	-5.68	
06 05 23 00-0045 Anchor And Ties (06 05 23)		
Note: Including nails.		
06 05 23 00-0046 EA 12-3/8" Long, 11 Gauge, Galvanized Heavy Tension Tie (Simpson Strong Tie® HTT4).....	34.69	
Note: Includes nails. Excludes anchor bolt.		
06 05 23 00-0047 EA 16" Long, 11 Gauge, Galvanized Heavy Tension Tie (Simpson Strong Tie® HTT5).....	42.96	
Note: Includes nails. Excludes anchor bolt.		
06 05 23 00-0048 EA 16 Gauge, Zinc Galvanized Finish Mudsill Anchor (Simpson Strong Tie® MASAZ).....	4.80	
06 05 23 00-0049 EA 16 Gauge, Zinc Galvanized Finish Mudsill Anchor (Simpson Strong Tie® MASBZ).....	5.36	
06 05 23 00-0050 Hurricane Ties (06 05 23)		
06 05 23 00-0051 EA 6" x 1-3/8" Wide, 18 Gauge, Galvanized Finish Hurricane Ties (Simpson Strong Tie® H2.5A).....	8.89	3.75
For >10 To 50, Deduct	-0.42	
For >50 To 100, Deduct	-0.85	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.97	
For >500, Deduct	-4.23	
06 05 23 00-0052 EA 6" x 1-3/8" Wide, 18 Gauge, Zinc Galvanized Finish Hurricane Ties (Simpson Strong Tie® H2.5AZ).....	3.15	
06 05 23 00-0053 EA 6" x 1-3/8" Wide, 18 Gauge, Stainless Steel Hurricane Ties (Simpson Strong Tie® H2.5ASS).....	8.04	
06 05 23 00-0054 EA 10-7/16" x 1-1/2" Wide, 18 Gauge, Galvanized Finish Hurricane Ties (Simpson Strong Tie® H2A).....	10.70	3.75
For >10 To 50, Deduct	-0.42	
For >50 To 100, Deduct	-0.89	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-3.10	
For >500, Deduct	-4.41	
06 05 23 00-0055 EA 19-3/16" x 2-1/4" Wide, 18 Gauge, Galvanized Finish Hurricane Ties (Simpson Strong Tie® H6).....	16.93	
06 05 23 00-0056 Post Column Bases (06 05 23)		
Note: Including nails.		
06 05 23 00-0057 EA Adjustable And Standoff 4" x 4" Post Base, With Bolts (Simpson Strong Tie® ABA44).....	29.54	
06 05 23 00-0058 EA Adjustable And Standoff 4" x 6" Post Base, With Bolts (Simpson Strong Tie® ABA46).....	46.04	
06 05 23 00-0059 EA Adjustable And Standoff 6" x 6" Post Base, With Bolts (Simpson Strong Tie® ABA66).....	47.48	
06 05 23 00-0060 Post Column Caps (06 05 23)		
Note: Including nails.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0061 EA 4" Beam, 4" Post Flange, 18 Gauge, Galvanized Post Cap (Simpson Strong Tie® BC4)	17.74	4.25
<i>For >10 To 50, Deduct</i>	-0.47	
<i>For >50 To 100, Deduct</i>	-1.14	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-3.90	
<i>For >500, Deduct</i>	-5.51	
06 05 23 00-0062 EA 6" Beam, 6" Post Flange, 18 Gauge, Galvanized Post Cap (Simpson Strong Tie® BC6)	37.70	4.25
<i>For >10 To 50, Deduct</i>	-0.49	
<i>For >50 To 100, Deduct</i>	-1.68	
<i>For >100 To 250, Deduct</i>	-3.36	
<i>For >250 To 500, Deduct</i>	-5.53	
<i>For >500, Deduct</i>	-7.71	
06 05 23 00-0063 EA 3-1/8" Beam, 4" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC3 1/4-4)	181.45	
Note: Excludes field welding		
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-6.35	
<i>For >100 To 250, Deduct</i>	-12.71	
<i>For >250 To 500, Deduct</i>	-20.27	
<i>For >500, Deduct</i>	-27.84	
<i>For Hot Dipped Galvanized, Add</i>	70.74	
06 05 23 00-0064 EA 3-1/8" Beam, 6" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC3 1/4-6)	188.48	
<i>For >10 To 50, Deduct</i>	-1.36	
<i>For >50 To 100, Deduct</i>	-6.76	
<i>For >100 To 250, Deduct</i>	-13.51	
<i>For >250 To 500, Deduct</i>	-21.64	
<i>For >500, Deduct</i>	-29.76	
<i>For Hot Dipped Galvanized, Add</i>	72.54	
06 05 23 00-0065 EA 4" Beam, 4" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC44)	117.12	
Note: Excludes field welding		
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-4.75	
<i>For >100 To 250, Deduct</i>	-9.49	
<i>For >250 To 500, Deduct</i>	-15.45	
<i>For >500, Deduct</i>	-21.41	
<i>For Hot Dipped Galvanized, Add</i>	41.80	
06 05 23 00-0066 EA 4" Beam, 6" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC46)	184.57	
<i>For >10 To 50, Deduct</i>	-1.36	
<i>For >50 To 100, Deduct</i>	-6.66	
<i>For >100 To 250, Deduct</i>	-13.32	
<i>For >250 To 500, Deduct</i>	-21.34	
<i>For >500, Deduct</i>	-29.37	
<i>For Hot Dipped Galvanized, Add</i>	70.79	
06 05 23 00-0067 EA 4" Beam, 8" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC48)	193.02	
Note: Excludes field welding		
<i>For >10 To 50, Deduct</i>	-1.36	
<i>For >50 To 100, Deduct</i>	-6.87	
<i>For >100 To 250, Deduct</i>	-13.74	
<i>For >250 To 500, Deduct</i>	-21.98	
<i>For >500, Deduct</i>	-30.21	
<i>For Hot Dipped Galvanized, Add</i>	74.59	
06 05 23 00-0068 EA 6" Beam, 4" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC64)	197.09	
<i>For >10 To 50, Deduct</i>	-1.30	
<i>For >50 To 100, Deduct</i>	-6.88	
<i>For >100 To 250, Deduct</i>	-13.76	
<i>For >250 To 500, Deduct</i>	-21.95	
<i>For >500, Deduct</i>	-30.13	
<i>For Hot Dipped Galvanized, Add</i>	76.96	
06 05 23 00-0069 EA 6" Beam, 6" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC66)	199.51	
<i>For >10 To 50, Deduct</i>	-1.42	
<i>For >50 To 100, Deduct</i>	-7.12	
<i>For >100 To 250, Deduct</i>	-14.25	
<i>For >250 To 500, Deduct</i>	-22.80	
<i>For >500, Deduct</i>	-31.34	
<i>For Hot Dipped Galvanized, Add</i>	76.96	
06 05 23 00-0070 EA 6" Beam, 8" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC68)	199.51	
<i>For >10 To 50, Deduct</i>	-1.42	
<i>For >50 To 100, Deduct</i>	-7.12	
<i>For >100 To 250, Deduct</i>	-14.25	
<i>For >250 To 500, Deduct</i>	-22.80	
<i>For >500, Deduct</i>	-31.34	
<i>For Hot Dipped Galvanized, Add</i>	76.96	
06 05 23 00-0071 EA 5-1/8" Beam, 4" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC5 1/4-4)	230.23	
<i>For >10 To 50, Deduct</i>	-1.30	
<i>For >50 To 100, Deduct</i>	-7.71	
<i>For >100 To 250, Deduct</i>	-15.42	
<i>For >250 To 500, Deduct</i>	-24.43	
<i>For >500, Deduct</i>	-33.45	
<i>For Hot Dipped Galvanized, Add</i>	91.88	
06 05 23 00-0072 EA 5-1/8" Beam, 6" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC5 1/4-6)	232.65	
<i>For >10 To 50, Deduct</i>	-1.42	
<i>For >50 To 100, Deduct</i>	-7.95	
<i>For >100 To 250, Deduct</i>	-15.90	
<i>For >250 To 500, Deduct</i>	-25.28	
<i>For >500, Deduct</i>	-34.66	
<i>For Hot Dipped Galvanized, Add</i>	91.88	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0073 EA 5-1/8" Beam, 8" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC5 1/4-8)	232.65	
For >10 To 50, Deduct	-1.42	
For >50 To 100, Deduct	-7.95	
For >100 To 250, Deduct	-15.90	
For >250 To 500, Deduct	-25.28	
For >500, Deduct	-34.66	
For Hot Dipped Galvanized, Add	91.88	
06 05 23 00-0074 EA 8" Beam, 4" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC84).....	281.55	
For >10 To 50, Deduct	-1.30	
For >50 To 100, Deduct	-8.99	
For >100 To 250, Deduct	-17.99	
For >250 To 500, Deduct	-28.28	
For >500, Deduct	-38.58	
For Hot Dipped Galvanized, Add	114.97	
06 05 23 00-0075 EA 8" Beam, 6" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC86).....	283.97	
For >10 To 50, Deduct	-1.42	
For >50 To 100, Deduct	-9.24	
For >100 To 250, Deduct	-18.47	
For >250 To 500, Deduct	-29.13	
For >500, Deduct	-39.79	
For Hot Dipped Galvanized, Add	114.97	
06 05 23 00-0076 EA 8" Beam, 8" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC88).....	283.97	
For >10 To 50, Deduct	-1.42	
For >50 To 100, Deduct	-9.24	
For >100 To 250, Deduct	-18.47	
For >250 To 500, Deduct	-29.13	
For >500, Deduct	-39.79	
For Hot Dipped Galvanized, Add	114.97	
06 05 23 00-0077 EA 3-1/8" Beam, 4" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC3 1/4-4).....	181.45	
Note: Excludes field welding		
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-6.35	
For >100 To 250, Deduct	-12.71	
For >250 To 500, Deduct	-20.27	
For >500, Deduct	-27.84	
For Hot Dipped Galvanized, Add	70.74	
06 05 23 00-0078 EA 3-1/8" Beam, 6" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC3 1/4-6).....	188.48	
For >10 To 50, Deduct	-1.36	
For >50 To 100, Deduct	-6.76	
For >100 To 250, Deduct	-13.51	
For >250 To 500, Deduct	-21.64	
For >500, Deduct	-29.76	
For Hot Dipped Galvanized, Add	72.54	
06 05 23 00-0079 EA 4" Beam, 4" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC44).....	117.12	
Note: Excludes field welding		
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-4.75	
For >100 To 250, Deduct	-9.49	
For >250 To 500, Deduct	-15.45	
For >500, Deduct	-21.41	
For Hot Dipped Galvanized, Add	41.80	
06 05 23 00-0080 EA 4" Beam, 6" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC46).....	184.57	
For >10 To 50, Deduct	-1.36	
For >50 To 100, Deduct	-6.66	
For >100 To 250, Deduct	-13.32	
For >250 To 500, Deduct	-21.34	
For >500, Deduct	-29.37	
For Hot Dipped Galvanized, Add	70.79	
06 05 23 00-0081 EA 4" Beam, 8" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC48).....	193.02	
Note: Excludes field welding		
For >10 To 50, Deduct	-1.36	
For >50 To 100, Deduct	-6.87	
For >100 To 250, Deduct	-13.74	
For >250 To 500, Deduct	-21.98	
For >500, Deduct	-30.21	
For Hot Dipped Galvanized, Add	74.59	
06 05 23 00-0082 EA 6" Beam, 4" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC64).....	197.09	
For >10 To 50, Deduct	-1.30	
For >50 To 100, Deduct	-6.88	
For >100 To 250, Deduct	-13.76	
For >250 To 500, Deduct	-21.95	
For >500, Deduct	-30.13	
For Hot Dipped Galvanized, Add	76.96	
06 05 23 00-0083 EA 6" Beam, 6" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC66).....	199.51	
For >10 To 50, Deduct	-1.42	
For >50 To 100, Deduct	-7.12	
For >100 To 250, Deduct	-14.25	
For >250 To 500, Deduct	-22.80	
For >500, Deduct	-31.34	
For Hot Dipped Galvanized, Add	76.96	
06 05 23 00-0084 EA 6" Beam, 8" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC68).....	199.51	
For >10 To 50, Deduct	-1.42	
For >50 To 100, Deduct	-7.12	
For >100 To 250, Deduct	-14.25	
For >250 To 500, Deduct	-22.80	
For >500, Deduct	-31.34	
For Hot Dipped Galvanized, Add	76.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0085 EA 5-1/8" Beam, 4" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC5 1/4-4).....	230.23	
<i>For >10 To 50, Deduct</i>	-1.30	
<i>For >50 To 100, Deduct</i>	-7.71	
<i>For >100 To 250, Deduct</i>	-15.42	
<i>For >250 To 500, Deduct</i>	-24.43	
<i>For >500, Deduct</i>	-33.45	
<i>For Hot Dipped Galvanized, Add</i>	91.88	
06 05 23 00-0086 EA 5-1/8" Beam, 6" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC5 1/4-6).....	232.65	
<i>For >10 To 50, Deduct</i>	-1.42	
<i>For >50 To 100, Deduct</i>	-7.95	
<i>For >100 To 250, Deduct</i>	-15.90	
<i>For >250 To 500, Deduct</i>	-25.28	
<i>For >500, Deduct</i>	-34.66	
<i>For Hot Dipped Galvanized, Add</i>	91.88	
06 05 23 00-0087 EA 5-1/8" Beam, 8" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC5 1/4-8).....	232.65	
<i>For >10 To 50, Deduct</i>	-1.42	
<i>For >50 To 100, Deduct</i>	-7.95	
<i>For >100 To 250, Deduct</i>	-15.90	
<i>For >250 To 500, Deduct</i>	-25.28	
<i>For >500, Deduct</i>	-34.66	
<i>For Hot Dipped Galvanized, Add</i>	91.88	
06 05 23 00-0088 EA 8" Beam, 4" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC84).....	281.55	
<i>For >10 To 50, Deduct</i>	-1.30	
<i>For >50 To 100, Deduct</i>	-8.99	
<i>For >100 To 250, Deduct</i>	-17.99	
<i>For >250 To 500, Deduct</i>	-28.28	
<i>For >500, Deduct</i>	-38.58	
<i>For Hot Dipped Galvanized, Add</i>	114.97	
06 05 23 00-0089 EA 8" Beam, 6" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC86).....	283.97	
<i>For >10 To 50, Deduct</i>	-1.42	
<i>For >50 To 100, Deduct</i>	-9.24	
<i>For >100 To 250, Deduct</i>	-18.47	
<i>For >250 To 500, Deduct</i>	-29.13	
<i>For >500, Deduct</i>	-39.79	
<i>For Hot Dipped Galvanized, Add</i>	114.97	
06 05 23 00-0090 EA 8" Beam, 8" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC88).....	283.97	
<i>For >10 To 50, Deduct</i>	-1.42	
<i>For >50 To 100, Deduct</i>	-9.24	
<i>For >100 To 250, Deduct</i>	-18.47	
<i>For >250 To 500, Deduct</i>	-29.13	
<i>For >500, Deduct</i>	-39.79	
<i>For Hot Dipped Galvanized, Add</i>	114.97	
 06 05 23 00-0091 Rafter Connectors <small>(06 05 23)</small>		
06 05 23 00-0092 EA Galvanized Rigid Rafter Connector, For 2" x 6" (Simpson Strong Tie® RR).....	10.42	3.75
<i>For >10 To 50, Deduct</i>	-0.42	
<i>For >50 To 100, Deduct</i>	-0.89	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 500, Deduct</i>	-3.08	
<i>For >500, Deduct</i>	-4.39	
 06 05 23 00-0093 Bolts And Fasteners <small>(06 05 23)</small>		
06 05 23 00-0094 Carriage Bolts <small>(06 05 23 00-0093)</small>		
Note: Includes drilling of holes in any material. Includes nut and washer.		
06 05 23 00-0095 Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolts <small>(06 05 23 00-0094)</small>		
06 05 23 00-0096 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	16.05	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.58	
<i>For >100 To 250, Deduct</i>	-3.17	
<i>For >250 To 500, Deduct</i>	-5.54	
<i>For >500, Deduct</i>	-7.91	
06 05 23 00-0097 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	16.18	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.59	
<i>For >100 To 250, Deduct</i>	-3.17	
<i>For >250 To 500, Deduct</i>	-5.54	
<i>For >500, Deduct</i>	-7.92	
06 05 23 00-0098 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	16.26	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.59	
<i>For >100 To 250, Deduct</i>	-3.18	
<i>For >250 To 500, Deduct</i>	-5.55	
<i>For >500, Deduct</i>	-7.93	
06 05 23 00-0099 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	18.93	
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-1.84	
<i>For >100 To 250, Deduct</i>	-3.67	
<i>For >250 To 500, Deduct</i>	-6.42	
<i>For >500, Deduct</i>	-9.17	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0100 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	17.62	
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-1.71	
For >100 To 250, Deduct	-3.43	
For >250 To 500, Deduct	-5.99	
For >500, Deduct	-8.55	
06 05 23 00-0101 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	19.04	
For >10 To 50, Deduct	-0.91	
For >50 To 100, Deduct	-1.84	
For >100 To 250, Deduct	-3.68	
For >250 To 500, Deduct	-6.43	
For >500, Deduct	-9.18	
06 05 23 00-0102 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	19.25	
For >10 To 50, Deduct	-0.91	
For >50 To 100, Deduct	-1.84	
For >100 To 250, Deduct	-3.69	
For >250 To 500, Deduct	-6.44	
For >500, Deduct	-9.20	
06 05 23 00-0103 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	23.04	
For >10 To 50, Deduct	-1.09	
For >50 To 100, Deduct	-2.21	
For >100 To 250, Deduct	-4.43	
For >250 To 500, Deduct	-7.73	
For >500, Deduct	-11.03	
06 05 23 00-0104 EA 3/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	24.88	
For >10 To 50, Deduct	-1.15	
For >50 To 100, Deduct	-2.35	
For >100 To 250, Deduct	-4.70	
For >250 To 500, Deduct	-8.20	
For >500, Deduct	-11.70	
06 05 23 00-0105 EA 3/8" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	27.93	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-2.61	
For >100 To 250, Deduct	-5.21	
For >250 To 500, Deduct	-9.09	
For >500, Deduct	-12.97	
06 05 23 00-0106 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	19.49	
For >10 To 50, Deduct	-0.91	
For >50 To 100, Deduct	-1.85	
For >100 To 250, Deduct	-3.70	
For >250 To 500, Deduct	-6.46	
For >500, Deduct	-9.22	
06 05 23 00-0107 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	21.25	
For >10 To 50, Deduct	-0.97	
For >50 To 100, Deduct	-1.99	
For >100 To 250, Deduct	-3.97	
For >250 To 500, Deduct	-6.93	
For >500, Deduct	-9.89	
06 05 23 00-0108 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	22.63	
For >10 To 50, Deduct	-1.03	
For >50 To 100, Deduct	-2.11	
For >100 To 250, Deduct	-4.22	
For >250 To 500, Deduct	-7.36	
For >500, Deduct	-10.50	
06 05 23 00-0109 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	25.35	
For >10 To 50, Deduct	-1.15	
For >50 To 100, Deduct	-2.36	
For >100 To 250, Deduct	-4.72	
For >250 To 500, Deduct	-8.23	
For >500, Deduct	-11.75	
06 05 23 00-0110 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	29.71	
For >10 To 50, Deduct	-1.33	
For >50 To 100, Deduct	-2.74	
For >100 To 250, Deduct	-5.48	
For >250 To 500, Deduct	-9.56	
For >500, Deduct	-13.64	
06 05 23 00-0111 EA 1/2" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	33.12	
For >10 To 50, Deduct	-1.45	
For >50 To 100, Deduct	-3.01	
For >100 To 250, Deduct	-6.02	
For >250 To 500, Deduct	-10.48	
For >500, Deduct	-14.94	
06 05 23 00-0112 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	25.98	
For >10 To 50, Deduct	-1.09	
For >50 To 100, Deduct	-2.29	
For >100 To 250, Deduct	-4.57	
For >250 To 500, Deduct	-7.95	
For >500, Deduct	-11.33	
06 05 23 00-0113 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	28.03	
For >10 To 50, Deduct	-1.15	
For >50 To 100, Deduct	-2.43	
For >100 To 250, Deduct	-4.86	
For >250 To 500, Deduct	-8.44	
For >500, Deduct	-12.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0114 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	33.39	
<i>For >10 To 50, Deduct</i>	-1.33	
<i>For >50 To 100, Deduct</i>	-2.83	
<i>For >100 To 250, Deduct</i>	-5.67	
<i>For >250 To 500, Deduct</i>	-9.84	
<i>For >500, Deduct</i>	-14.00	
06 05 23 00-0115 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	37.09	
<i>For >10 To 50, Deduct</i>	-1.39	
<i>For >50 To 100, Deduct</i>	-3.02	
<i>For >100 To 250, Deduct</i>	-6.04	
<i>For >250 To 500, Deduct</i>	-10.45	
<i>For >500, Deduct</i>	-14.86	
06 05 23 00-0116 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	40.28	
<i>For >10 To 50, Deduct</i>	-1.52	
<i>For >50 To 100, Deduct</i>	-3.28	
<i>For >100 To 250, Deduct</i>	-6.56	
<i>For >250 To 500, Deduct</i>	-11.35	
<i>For >500, Deduct</i>	-16.15	
06 05 23 00-0117 EA 3/4" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	41.20	
<i>For >10 To 50, Deduct</i>	-1.58	
<i>For >50 To 100, Deduct</i>	-3.39	
<i>For >100 To 250, Deduct</i>	-6.79	
<i>For >250 To 500, Deduct</i>	-11.76	
<i>For >500, Deduct</i>	-16.72	
06 05 23 00-0118 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolts <small>(06 05 23 00-0094)</small>		
06 05 23 00-0119 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	16.28	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.59	
<i>For >100 To 250, Deduct</i>	-3.18	
<i>For >250 To 500, Deduct</i>	-5.55	
<i>For >500, Deduct</i>	-7.93	
06 05 23 00-0120 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	16.53	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.59	
<i>For >100 To 250, Deduct</i>	-3.19	
<i>For >250 To 500, Deduct</i>	-5.57	
<i>For >500, Deduct</i>	-7.95	
06 05 23 00-0121 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	16.80	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.60	
<i>For >100 To 250, Deduct</i>	-3.20	
<i>For >250 To 500, Deduct</i>	-5.59	
<i>For >500, Deduct</i>	-7.98	
06 05 23 00-0122 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	19.83	
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-1.86	
<i>For >100 To 250, Deduct</i>	-3.72	
<i>For >250 To 500, Deduct</i>	-6.49	
<i>For >500, Deduct</i>	-9.26	
06 05 23 00-0123 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	17.95	
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-1.72	
<i>For >100 To 250, Deduct</i>	-3.44	
<i>For >250 To 500, Deduct</i>	-6.01	
<i>For >500, Deduct</i>	-8.58	
06 05 23 00-0124 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	19.55	
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-1.85	
<i>For >100 To 250, Deduct</i>	-3.70	
<i>For >250 To 500, Deduct</i>	-6.47	
<i>For >500, Deduct</i>	-9.23	
06 05 23 00-0125 EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	19.85	
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-1.86	
<i>For >100 To 250, Deduct</i>	-3.72	
<i>For >250 To 500, Deduct</i>	-6.49	
<i>For >500, Deduct</i>	-9.26	
06 05 23 00-0126 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	23.96	
<i>For >10 To 50, Deduct</i>	-1.09	
<i>For >50 To 100, Deduct</i>	-2.24	
<i>For >100 To 250, Deduct</i>	-4.47	
<i>For >250 To 500, Deduct</i>	-7.80	
<i>For >500, Deduct</i>	-11.12	
06 05 23 00-0127 EA 3/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	25.90	
<i>For >10 To 50, Deduct</i>	-1.15	
<i>For >50 To 100, Deduct</i>	-2.37	
<i>For >100 To 250, Deduct</i>	-4.75	
<i>For >250 To 500, Deduct</i>	-8.28	
<i>For >500, Deduct</i>	-11.80	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0128 EA 3/8" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	28.88	
For>10 To 50, Deduct	-1.27	
For>50 To 100, Deduct	-2.63	
For>100 To 250, Deduct	-5.26	
For>250 To 500, Deduct	-9.16	
For>500, Deduct	-13.07	
06 05 23 00-0129 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	20.25	
For>10 To 50, Deduct	-0.91	
For>50 To 100, Deduct	-1.87	
For>100 To 250, Deduct	-3.74	
For>250 To 500, Deduct	-6.52	
For>500, Deduct	-9.30	
06 05 23 00-0130 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	21.85	
For>10 To 50, Deduct	-0.97	
For>50 To 100, Deduct	-2.00	
For>100 To 250, Deduct	-4.00	
For>250 To 500, Deduct	-6.97	
For>500, Deduct	-9.95	
06 05 23 00-0131 EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	23.34	
For>10 To 50, Deduct	-1.03	
For>50 To 100, Deduct	-2.13	
For>100 To 250, Deduct	-4.26	
For>250 To 500, Deduct	-7.42	
For>500, Deduct	-10.57	
06 05 23 00-0132 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	26.39	
For>10 To 50, Deduct	-1.15	
For>50 To 100, Deduct	-2.39	
For>100 To 250, Deduct	-4.77	
For>250 To 500, Deduct	-8.31	
For>500, Deduct	-11.85	
06 05 23 00-0133 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	30.72	
For>10 To 50, Deduct	-1.33	
For>50 To 100, Deduct	-2.77	
For>100 To 250, Deduct	-5.54	
For>250 To 500, Deduct	-9.64	
For>500, Deduct	-13.74	
06 05 23 00-0134 EA 1/2" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	33.89	
For>10 To 50, Deduct	-1.45	
For>50 To 100, Deduct	-3.03	
For>100 To 250, Deduct	-6.06	
For>250 To 500, Deduct	-10.54	
For>500, Deduct	-15.02	
06 05 23 00-0135 EA 3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	28.28	
For>10 To 50, Deduct	-1.09	
For>50 To 100, Deduct	-2.34	
For>100 To 250, Deduct	-4.69	
For>250 To 500, Deduct	-8.12	
For>500, Deduct	-11.56	
06 05 23 00-0136 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	29.64	
For>10 To 50, Deduct	-1.15	
For>50 To 100, Deduct	-2.47	
For>100 To 250, Deduct	-4.94	
For>250 To 500, Deduct	-8.56	
For>500, Deduct	-12.18	
06 05 23 00-0137 EA 3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	34.53	
For>10 To 50, Deduct	-1.33	
For>50 To 100, Deduct	-2.86	
For>100 To 250, Deduct	-5.73	
For>250 To 500, Deduct	-9.92	
For>500, Deduct	-14.12	
06 05 23 00-0138 EA 3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	37.00	
For>10 To 50, Deduct	-1.39	
For>50 To 100, Deduct	-3.02	
For>100 To 250, Deduct	-6.03	
For>250 To 500, Deduct	-10.44	
For>500, Deduct	-14.85	
06 05 23 00-0139 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	41.76	
For>10 To 50, Deduct	-1.52	
For>50 To 100, Deduct	-3.32	
For>100 To 250, Deduct	-6.63	
For>250 To 500, Deduct	-11.46	
For>500, Deduct	-16.30	
06 05 23 00-0140 EA 3/4" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	44.30	
For>10 To 50, Deduct	-1.58	
For>50 To 100, Deduct	-3.47	
For>100 To 250, Deduct	-6.94	
For>250 To 500, Deduct	-11.99	
For>500, Deduct	-17.03	

06 05 23 00-0141 304/18-8 Stainless Steel, Carriage Bolts (06 05 23 00-0094)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0142 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt	17.06	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.61	
<i>For >100 To 250, Deduct</i>	-3.22	
<i>For >250 To 500, Deduct</i>	-5.61	
<i>For >500, Deduct</i>	-8.01	
06 05 23 00-0143 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	18.49	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.64	
<i>For >100 To 250, Deduct</i>	-3.29	
<i>For >250 To 500, Deduct</i>	-5.72	
<i>For >500, Deduct</i>	-8.15	
06 05 23 00-0144 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	19.43	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.67	
<i>For >100 To 250, Deduct</i>	-3.33	
<i>For >250 To 500, Deduct</i>	-5.79	
<i>For >500, Deduct</i>	-8.24	
06 05 23 00-0145 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	31.96	
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-2.16	
<i>For >100 To 250, Deduct</i>	-4.33	
<i>For >250 To 500, Deduct</i>	-7.40	
<i>For >500, Deduct</i>	-10.47	
06 05 23 00-0146 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt	19.61	
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-1.76	
<i>For >100 To 250, Deduct</i>	-3.53	
<i>For >250 To 500, Deduct</i>	-6.14	
<i>For >500, Deduct</i>	-8.75	
06 05 23 00-0147 EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	22.90	
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-1.94	
<i>For >100 To 250, Deduct</i>	-3.87	
<i>For >250 To 500, Deduct</i>	-6.72	
<i>For >500, Deduct</i>	-9.56	
06 05 23 00-0148 EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	23.35	
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-1.95	
<i>For >100 To 250, Deduct</i>	-3.89	
<i>For >250 To 500, Deduct</i>	-6.75	
<i>For >500, Deduct</i>	-9.61	
06 05 23 00-0149 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	41.94	
<i>For >10 To 50, Deduct</i>	-1.09	
<i>For >50 To 100, Deduct</i>	-2.69	
<i>For >100 To 250, Deduct</i>	-5.37	
<i>For >250 To 500, Deduct</i>	-9.15	
<i>For >500, Deduct</i>	-12.92	
06 05 23 00-0150 EA 3/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt	50.61	
<i>For >10 To 50, Deduct</i>	-1.15	
<i>For >50 To 100, Deduct</i>	-2.99	
<i>For >100 To 250, Deduct</i>	-5.99	
<i>For >250 To 500, Deduct</i>	-10.13	
<i>For >500, Deduct</i>	-14.27	
06 05 23 00-0151 EA 3/8" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt	56.66	
<i>For >10 To 50, Deduct</i>	-1.27	
<i>For >50 To 100, Deduct</i>	-3.33	
<i>For >100 To 250, Deduct</i>	-6.65	
<i>For >250 To 500, Deduct</i>	-11.25	
<i>For >500, Deduct</i>	-15.85	
06 05 23 00-0152 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt	24.57	
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-1.98	
<i>For >100 To 250, Deduct</i>	-3.96	
<i>For >250 To 500, Deduct</i>	-6.84	
<i>For >500, Deduct</i>	-9.73	
06 05 23 00-0153 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	27.79	
<i>For >10 To 50, Deduct</i>	-0.97	
<i>For >50 To 100, Deduct</i>	-2.15	
<i>For >100 To 250, Deduct</i>	-4.30	
<i>For >250 To 500, Deduct</i>	-7.42	
<i>For >500, Deduct</i>	-10.54	
06 05 23 00-0154 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	33.34	
<i>For >10 To 50, Deduct</i>	-1.03	
<i>For >50 To 100, Deduct</i>	-2.38	
<i>For >100 To 250, Deduct</i>	-4.76	
<i>For >250 To 500, Deduct</i>	-8.17	
<i>For >500, Deduct</i>	-11.57	
06 05 23 00-0155 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	51.93	
<i>For >10 To 50, Deduct</i>	-1.15	
<i>For >50 To 100, Deduct</i>	-3.03	
<i>For >100 To 250, Deduct</i>	-6.05	
<i>For >250 To 500, Deduct</i>	-10.23	
<i>For >500, Deduct</i>	-14.41	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0156 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	58.72	
For>10 To 50, Deduct	-1.33	
For>50 To 100, Deduct	-3.47	
For>100 To 250, Deduct	-6.94	
For>250 To 500, Deduct	-11.74	
For>500, Deduct	-16.54	
06 05 23 00-0157 EA 1/2" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	90.77	
For>10 To 50, Deduct	-1.45	
For>50 To 100, Deduct	-4.45	
For>100 To 250, Deduct	-8.90	
For>250 To 500, Deduct	-14.80	
For>500, Deduct	-20.71	
06 05 23 00-0158 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	70.55	
For>10 To 50, Deduct	-1.15	
For>50 To 100, Deduct	-3.49	
For>100 To 250, Deduct	-6.98	
For>250 To 500, Deduct	-11.62	
For>500, Deduct	-16.27	
06 05 23 00-0159 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	99.23	
For>10 To 50, Deduct	-1.33	
For>50 To 100, Deduct	-4.48	
For>100 To 250, Deduct	-8.96	
For>250 To 500, Deduct	-14.77	
For>500, Deduct	-20.59	
06 05 23 00-0160 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	109.78	
For>10 To 50, Deduct	-1.39	
For>50 To 100, Deduct	-4.84	
For>100 To 250, Deduct	-9.67	
For>250 To 500, Deduct	-15.90	
For>500, Deduct	-22.13	
06 05 23 00-0161 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	160.83	
For>10 To 50, Deduct	-1.52	
For>50 To 100, Deduct	-6.29	
For>100 To 250, Deduct	-12.59	
For>250 To 500, Deduct	-20.39	
For>500, Deduct	-28.20	
06 05 23 00-0162 EA 3/4" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	169.13	
For>10 To 50, Deduct	-1.58	
For>50 To 100, Deduct	-6.59	
For>100 To 250, Deduct	-13.18	
For>250 To 500, Deduct	-21.35	
For>500, Deduct	-29.52	
06 05 23 00-0163 316 Stainless Steel, Carriage Bolts <small>(06 05 23 00-0094)</small>.....	23.68	
06 05 23 00-0164 EA 1/4" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt.....	23.68	
For>10 To 50, Deduct	-0.79	
For>50 To 100, Deduct	-1.77	
For>100 To 250, Deduct	-3.55	
For>250 To 500, Deduct	-6.11	
For>500, Deduct	-8.67	
06 05 23 00-0165 EA 1/4" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt.....	26.20	
For>10 To 50, Deduct	-0.79	
For>50 To 100, Deduct	-1.84	
For>100 To 250, Deduct	-3.67	
For>250 To 500, Deduct	-6.30	
For>500, Deduct	-8.92	
06 05 23 00-0166 EA 3/8" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt.....	28.27	
For>10 To 50, Deduct	-0.85	
For>50 To 100, Deduct	-1.98	
For>100 To 250, Deduct	-3.96	
For>250 To 500, Deduct	-6.79	
For>500, Deduct	-9.62	
06 05 23 00-0167 EA 3/8" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt.....	32.98	
For>10 To 50, Deduct	-0.91	
For>50 To 100, Deduct	-2.19	
For>100 To 250, Deduct	-4.38	
For>250 To 500, Deduct	-7.47	
For>500, Deduct	-10.57	
06 05 23 00-0168 EA 1/2" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt.....	44.17	
For>10 To 50, Deduct	-0.91	
For>50 To 100, Deduct	-2.47	
For>100 To 250, Deduct	-4.94	
For>250 To 500, Deduct	-8.31	
For>500, Deduct	-11.69	
06 05 23 00-0169 EA 1/2" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt.....	48.10	
For>10 To 50, Deduct	-0.97	
For>50 To 100, Deduct	-2.66	
For>100 To 250, Deduct	-5.32	
For>250 To 500, Deduct	-8.94	
For>500, Deduct	-12.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0170 EA 1/2" Diameter x 6" Length, 316 Stainless Steel, Carriage Bolt.....	51.80	
<i>For >10 To 50, Deduct</i>	-1.03	
<i>For >50 To 100, Deduct</i>	-2.84	
<i>For >100 To 250, Deduct</i>	-5.68	
<i>For >250 To 500, Deduct</i>	-9.55	
<i>For >500, Deduct</i>	-13.42	
06 05 23 00-0171 Hex Lag Bolts <small>(06 05 23 00-0093)</small>		
Note: Includes drilling of holes in any material.		
06 05 23 00-0172 Zinc Plated Steel, Hex Lag Bolts <small>(06 05 23 00-0171)</small>		
06 05 23 00-0173 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt	15.33	
<i>For >10 To 50, Deduct</i>	-0.76	
<i>For >50 To 100, Deduct</i>	-1.52	
<i>For >100 To 250, Deduct</i>	-3.04	
<i>For >250 To 500, Deduct</i>	-5.32	
<i>For >500, Deduct</i>	-7.59	
06 05 23 00-0174 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt	15.44	
<i>For >10 To 50, Deduct</i>	-0.76	
<i>For >50 To 100, Deduct</i>	-1.52	
<i>For >100 To 250, Deduct</i>	-3.04	
<i>For >250 To 500, Deduct</i>	-5.32	
<i>For >500, Deduct</i>	-7.60	
06 05 23 00-0175 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt	15.68	
<i>For >10 To 50, Deduct</i>	-0.76	
<i>For >50 To 100, Deduct</i>	-1.53	
<i>For >100 To 250, Deduct</i>	-3.06	
<i>For >250 To 500, Deduct</i>	-5.34	
<i>For >500, Deduct</i>	-7.63	
06 05 23 00-0176 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt	16.86	
<i>For >10 To 50, Deduct</i>	-0.83	
<i>For >50 To 100, Deduct</i>	-1.66	
<i>For >100 To 250, Deduct</i>	-3.32	
<i>For >250 To 500, Deduct</i>	-5.80	
<i>For >500, Deduct</i>	-8.29	
06 05 23 00-0177 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt	18.26	
<i>For >10 To 50, Deduct</i>	-0.88	
<i>For >50 To 100, Deduct</i>	-1.78	
<i>For >100 To 250, Deduct</i>	-3.57	
<i>For >250 To 500, Deduct</i>	-6.23	
<i>For >500, Deduct</i>	-8.90	
06 05 23 00-0178 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt	18.51	
<i>For >10 To 50, Deduct</i>	-0.88	
<i>For >50 To 100, Deduct</i>	-1.79	
<i>For >100 To 250, Deduct</i>	-3.58	
<i>For >250 To 500, Deduct</i>	-6.25	
<i>For >500, Deduct</i>	-8.93	
06 05 23 00-0179 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt	22.57	
<i>For >10 To 50, Deduct</i>	-1.06	
<i>For >50 To 100, Deduct</i>	-2.16	
<i>For >100 To 250, Deduct</i>	-4.31	
<i>For >250 To 500, Deduct</i>	-7.53	
<i>For >500, Deduct</i>	-10.75	
06 05 23 00-0180 EA 3/8" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt.....	23.89	
<i>For >10 To 50, Deduct</i>	-1.12	
<i>For >50 To 100, Deduct</i>	-2.28	
<i>For >100 To 250, Deduct</i>	-4.55	
<i>For >250 To 500, Deduct</i>	-7.95	
<i>For >500, Deduct</i>	-11.35	
06 05 23 00-0181 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt	18.56	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.80	
<i>For >100 To 250, Deduct</i>	-3.60	
<i>For >250 To 500, Deduct</i>	-6.30	
<i>For >500, Deduct</i>	-8.99	
06 05 23 00-0182 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt	20.11	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-1.93	
<i>For >100 To 250, Deduct</i>	-3.86	
<i>For >250 To 500, Deduct</i>	-6.74	
<i>For >500, Deduct</i>	-9.62	
06 05 23 00-0183 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt	21.77	
<i>For >10 To 50, Deduct</i>	-1.01	
<i>For >50 To 100, Deduct</i>	-2.06	
<i>For >100 To 250, Deduct</i>	-4.12	
<i>For >250 To 500, Deduct</i>	-7.19	
<i>For >500, Deduct</i>	-10.26	
06 05 23 00-0184 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt	24.68	
<i>For >10 To 50, Deduct</i>	-1.13	
<i>For >50 To 100, Deduct</i>	-2.31	
<i>For >100 To 250, Deduct</i>	-4.62	
<i>For >250 To 500, Deduct</i>	-8.06	
<i>For >500, Deduct</i>	-11.50	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0185 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt.....	28.98	
For>10 To 50, Deduct	-1.31	
For>50 To 100, Deduct	-2.69	
For>100 To 250, Deduct	-5.37	
For>250 To 500, Deduct	-9.36	
For>500, Deduct	-13.35	
06 05 23 00-0186 EA 1/2" Diameter x 12" Length, Zinc Plated Steel, Hex Lag Bolt.....	31.63	
For>10 To 50, Deduct	-1.43	
For>50 To 100, Deduct	-2.93	
For>100 To 250, Deduct	-5.86	
For>250 To 500, Deduct	-10.22	
For>500, Deduct	-14.57	
06 05 23 00-0187 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt.....	26.22	
For>10 To 50, Deduct	-1.13	
For>50 To 100, Deduct	-2.35	
For>100 To 250, Deduct	-4.70	
For>250 To 500, Deduct	-8.17	
For>500, Deduct	-11.65	
06 05 23 00-0188 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt.....	31.12	
For>10 To 50, Deduct	-1.31	
For>50 To 100, Deduct	-2.74	
For>100 To 250, Deduct	-5.48	
For>250 To 500, Deduct	-9.52	
For>500, Deduct	-13.57	
06 05 23 00-0189 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt.....	34.05	
For>10 To 50, Deduct	-1.37	
For>50 To 100, Deduct	-2.90	
For>100 To 250, Deduct	-5.80	
For>250 To 500, Deduct	-10.07	
For>500, Deduct	-14.33	
06 05 23 00-0190 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt.....	38.04	
For>10 To 50, Deduct	-1.49	
For>50 To 100, Deduct	-3.18	
For>100 To 250, Deduct	-6.36	
For>250 To 500, Deduct	-11.02	
For>500, Deduct	-15.69	
06 05 23 00-0191 EA 3/4" Diameter x 12" Length, Zinc Plated Steel, Hex Lag Bolt.....	42.05	
For>10 To 50, Deduct	-1.54	
For>50 To 100, Deduct	-3.37	
For>100 To 250, Deduct	-6.74	
For>250 To 500, Deduct	-11.65	
For>500, Deduct	-16.56	

06 05 23 00-0192 Hot Dipped Galvanized Steel, Hex Lag Bolts (06 05 23 00-0171)

06 05 23 00-0193 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	15.39	
For>10 To 50, Deduct	-0.76	
For>50 To 100, Deduct	-1.52	
For>100 To 250, Deduct	-3.04	
For>250 To 500, Deduct	-5.32	
For>500, Deduct	-7.60	
06 05 23 00-0194 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	15.56	
For>10 To 50, Deduct	-0.76	
For>50 To 100, Deduct	-1.53	
For>100 To 250, Deduct	-3.05	
For>250 To 500, Deduct	-5.33	
For>500, Deduct	-7.62	
06 05 23 00-0195 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	15.74	
For>10 To 50, Deduct	-0.76	
For>50 To 100, Deduct	-1.53	
For>100 To 250, Deduct	-3.06	
For>250 To 500, Deduct	-5.35	
For>500, Deduct	-7.63	
06 05 23 00-0196 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	16.95	
For>10 To 50, Deduct	-0.83	
For>50 To 100, Deduct	-1.66	
For>100 To 250, Deduct	-3.32	
For>250 To 500, Deduct	-5.81	
For>500, Deduct	-8.30	
06 05 23 00-0197 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	18.41	
For>10 To 50, Deduct	-0.88	
For>50 To 100, Deduct	-1.79	
For>100 To 250, Deduct	-3.57	
For>250 To 500, Deduct	-6.25	
For>500, Deduct	-8.92	
06 05 23 00-0198 EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	18.69	
For>10 To 50, Deduct	-0.88	
For>50 To 100, Deduct	-1.79	
For>100 To 250, Deduct	-3.59	
For>250 To 500, Deduct	-6.27	
For>500, Deduct	-8.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0199 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	22.91	
<i>For >10 To 50, Deduct</i>	-1.06	
<i>For >50 To 100, Deduct</i>	-2.17	
<i>For >100 To 250, Deduct</i>	-4.33	
<i>For >250 To 500, Deduct</i>	-7.56	
<i>For >500, Deduct</i>	-10.78	
06 05 23 00-0200 EA 3/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	24.46	
<i>For >10 To 50, Deduct</i>	-1.12	
<i>For >50 To 100, Deduct</i>	-2.29	
<i>For >100 To 250, Deduct</i>	-4.58	
<i>For >250 To 500, Deduct</i>	-7.99	
<i>For >500, Deduct</i>	-11.41	
06 05 23 00-0201 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	18.82	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.81	
<i>For >100 To 250, Deduct</i>	-3.62	
<i>For >250 To 500, Deduct</i>	-6.31	
<i>For >500, Deduct</i>	-9.01	
06 05 23 00-0202 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	20.25	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-1.93	
<i>For >100 To 250, Deduct</i>	-3.86	
<i>For >250 To 500, Deduct</i>	-6.75	
<i>For >500, Deduct</i>	-9.63	
06 05 23 00-0203 EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	22.03	
<i>For >10 To 50, Deduct</i>	-1.01	
<i>For >50 To 100, Deduct</i>	-2.07	
<i>For >100 To 250, Deduct</i>	-4.13	
<i>For >250 To 500, Deduct</i>	-7.21	
<i>For >500, Deduct</i>	-10.28	
06 05 23 00-0204 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	25.46	
<i>For >10 To 50, Deduct</i>	-1.13	
<i>For >50 To 100, Deduct</i>	-2.33	
<i>For >100 To 250, Deduct</i>	-4.66	
<i>For >250 To 500, Deduct</i>	-8.12	
<i>For >500, Deduct</i>	-11.57	
06 05 23 00-0205 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	29.36	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-2.69	
<i>For >100 To 250, Deduct</i>	-5.39	
<i>For >250 To 500, Deduct</i>	-9.39	
<i>For >500, Deduct</i>	-13.39	
06 05 23 00-0206 EA 1/2" Diameter x 12" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	32.56	
<i>For >10 To 50, Deduct</i>	-1.43	
<i>For >50 To 100, Deduct</i>	-2.95	
<i>For >100 To 250, Deduct</i>	-5.91	
<i>For >250 To 500, Deduct</i>	-10.29	
<i>For >500, Deduct</i>	-14.66	
06 05 23 00-0207 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	26.80	
<i>For >10 To 50, Deduct</i>	-1.13	
<i>For >50 To 100, Deduct</i>	-2.36	
<i>For >100 To 250, Deduct</i>	-4.73	
<i>For >250 To 500, Deduct</i>	-8.22	
<i>For >500, Deduct</i>	-11.71	
06 05 23 00-0208 EA 3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	31.64	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-2.75	
<i>For >100 To 250, Deduct</i>	-5.50	
<i>For >250 To 500, Deduct</i>	-9.56	
<i>For >500, Deduct</i>	-13.62	
06 05 23 00-0209 EA 3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	34.93	
<i>For >10 To 50, Deduct</i>	-1.37	
<i>For >50 To 100, Deduct</i>	-2.92	
<i>For >100 To 250, Deduct</i>	-5.84	
<i>For >250 To 500, Deduct</i>	-10.13	
<i>For >500, Deduct</i>	-14.42	
06 05 23 00-0210 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	40.11	
<i>For >10 To 50, Deduct</i>	-1.49	
<i>For >50 To 100, Deduct</i>	-3.23	
<i>For >100 To 250, Deduct</i>	-6.46	
<i>For >250 To 500, Deduct</i>	-11.18	
<i>For >500, Deduct</i>	-15.90	
06 05 23 00-0211 EA 3/4" Diameter x 12" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	44.25	
<i>For >10 To 50, Deduct</i>	-1.54	
<i>For >50 To 100, Deduct</i>	-3.42	
<i>For >100 To 250, Deduct</i>	-6.85	
<i>For >250 To 500, Deduct</i>	-11.81	
<i>For >500, Deduct</i>	-16.78	

06 05 23 00-0212 304/18-8 Stainless Steel, Hex Lag Bolts (06 05 23 00-0171)

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0213 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	16.05	
For>10 To 50, Deduct	-0.76	
For>50 To 100, Deduct	-1.54	
For>100 To 250, Deduct	-3.08	
For>250 To 500, Deduct	-5.37	
For>500, Deduct	-7.67	
06 05 23 00-0214 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	16.72	
For>10 To 50, Deduct	-0.76	
For>50 To 100, Deduct	-1.55	
For>100 To 250, Deduct	-3.11	
For>250 To 500, Deduct	-5.42	
For>500, Deduct	-7.73	
06 05 23 00-0215 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	18.55	
For>10 To 50, Deduct	-0.76	
For>50 To 100, Deduct	-1.60	
For>100 To 250, Deduct	-3.20	
For>250 To 500, Deduct	-5.56	
For>500, Deduct	-7.92	
06 05 23 00-0216 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	18.81	
For>10 To 50, Deduct	-0.83	
For>50 To 100, Deduct	-1.71	
For>100 To 250, Deduct	-3.42	
For>250 To 500, Deduct	-5.95	
For>500, Deduct	-8.49	
06 05 23 00-0217 EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	21.01	
For>10 To 50, Deduct	-0.88	
For>50 To 100, Deduct	-1.85	
For>100 To 250, Deduct	-3.70	
For>250 To 500, Deduct	-6.44	
For>500, Deduct	-9.18	
06 05 23 00-0218 EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	22.18	
For>10 To 50, Deduct	-0.88	
For>50 To 100, Deduct	-1.88	
For>100 To 250, Deduct	-3.76	
For>250 To 500, Deduct	-6.53	
For>500, Deduct	-9.29	
06 05 23 00-0219 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	41.97	
For>10 To 50, Deduct	-1.06	
For>50 To 100, Deduct	-2.64	
For>100 To 250, Deduct	-5.28	
For>250 To 500, Deduct	-8.99	
For>500, Deduct	-12.69	
06 05 23 00-0220 EA 3/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	57.36	
For>10 To 50, Deduct	-1.12	
For>50 To 100, Deduct	-3.11	
For>100 To 250, Deduct	-6.23	
For>250 To 500, Deduct	-10.46	
For>500, Deduct	-14.70	
06 05 23 00-0221 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	22.36	
For>10 To 50, Deduct	-0.89	
For>50 To 100, Deduct	-1.90	
For>100 To 250, Deduct	-3.79	
For>250 To 500, Deduct	-6.58	
For>500, Deduct	-9.37	
06 05 23 00-0222 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	25.97	
For>10 To 50, Deduct	-0.95	
For>50 To 100, Deduct	-2.08	
For>100 To 250, Deduct	-4.15	
For>250 To 500, Deduct	-7.18	
For>500, Deduct	-10.20	
06 05 23 00-0223 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	31.37	
For>10 To 50, Deduct	-1.01	
For>50 To 100, Deduct	-2.30	
For>100 To 250, Deduct	-4.60	
For>250 To 500, Deduct	-7.91	
For>500, Deduct	-11.22	
06 05 23 00-0224 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	60.83	
For>10 To 50, Deduct	-1.13	
For>50 To 100, Deduct	-3.21	
For>100 To 250, Deduct	-6.43	
For>250 To 500, Deduct	-10.77	
For>500, Deduct	-15.11	
06 05 23 00-0225 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	81.81	
For>10 To 50, Deduct	-1.31	
For>50 To 100, Deduct	-4.01	
For>100 To 250, Deduct	-8.01	
For>250 To 500, Deduct	-13.32	
For>500, Deduct	-18.64	
06 05 23 00-0226 EA 1/2" Diameter x 12" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	95.13	
For>10 To 50, Deduct	-1.43	
For>50 To 100, Deduct	-4.52	
For>100 To 250, Deduct	-9.03	
For>250 To 500, Deduct	-14.98	
For>500, Deduct	-20.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0227 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	87.41	
<i>For >10 To 50, Deduct</i>	-1.13	
<i>For >50 To 100, Deduct</i>	-3.88	
<i>For >100 To 250, Deduct</i>	-7.76	
<i>For >250 To 500, Deduct</i>	-12.76	
<i>For >500, Deduct</i>	-17.77	
06 05 23 00-0228 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	99.99	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-4.46	
<i>For >100 To 250, Deduct</i>	-8.92	
<i>For >250 To 500, Deduct</i>	-14.69	
<i>For >500, Deduct</i>	-20.46	
06 05 23 00-0229 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	104.07	
<i>For >10 To 50, Deduct</i>	-1.37	
<i>For >50 To 100, Deduct</i>	-4.65	
<i>For >100 To 250, Deduct</i>	-9.30	
<i>For >250 To 500, Deduct</i>	-15.32	
<i>For >500, Deduct</i>	-21.34	
06 05 23 00-0230 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	142.46	
<i>For >10 To 50, Deduct</i>	-1.49	
<i>For >50 To 100, Deduct</i>	-5.79	
<i>For >100 To 250, Deduct</i>	-11.58	
<i>For >250 To 500, Deduct</i>	-18.85	
<i>For >500, Deduct</i>	-26.13	
06 05 23 00-0231 EA 3/4" Diameter x 12" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	155.11	
<i>For >10 To 50, Deduct</i>	-1.54	
<i>For >50 To 100, Deduct</i>	-6.19	
<i>For >100 To 250, Deduct</i>	-12.39	
<i>For >250 To 500, Deduct</i>	-20.13	
<i>For >500, Deduct</i>	-27.87	
06 05 23 00-0232 Stainless Steel Screws <small>(06 05 23 00-0093)</small>		
06 05 23 00-0233 EA #8 x 1-1/2" Stainless Steel Screw	2.36	
06 05 23 00-0234 EA #9 x 1-1/2" Stainless Steel Screw	2.40	
06 05 23 00-0235 EA #10 x 1-1/2" Stainless Steel Screw	2.46	
06 05 23 00-0236 EA #12 x 1-1/2" Stainless Steel Screw	2.64	
06 05 23 00-0237 Galvanized Steel Screws <small>(06 05 23 00-0093)</small>		
06 05 23 00-0238 EA #8 x 1-1/2" Galvanized Steel Screw.....	2.20	
06 05 23 00-0239 EA #9 x 1-1/2" Galvanized Steel Screw.....	2.24	
06 05 23 00-0240 EA #10 x 1-1/2" Galvanized Steel Screw.....	2.29	
06 05 23 00-0241 EA #12 x 1-1/2" Galvanized Steel Screw.....	2.44	
06 05 23 00-0242 EA #8 x 2-1/2" Galvanized Steel Screw.....	2.23	
06 05 23 00-0243 EA #9 x 2-1/2" Galvanized Steel Screw.....	2.27	
06 05 23 00-0244 EA #10 x 2-1/2" Galvanized Steel Screw.....	2.33	
06 05 23 00-0245 EA #12 x 2-1/2" Galvanized Steel Screw.....	2.52	
06 05 23 00-0246 Timber Bolts <small>(06 05 23 00-0093)</small>		
Note: Includes drilling of holes in any material.		
06 05 23 00-0247 EA 5/8" - 11 x 4" Threaded x 8" OAL A153 Galvanized Timber Bolt (Fastenal #11103914)	37.86	
<i>For >10 To 50, Deduct</i>	-1.26	
<i>For >50 To 100, Deduct</i>	-2.83	
<i>For >100 To 250, Deduct</i>	-5.66	
<i>For >250 To 500, Deduct</i>	-9.75	
<i>For >500, Deduct</i>	-13.83	
06 05 23 00-0248 EA 5/8" - 11 x 4" Threaded x 10" OAL A153 Galvanized Timber Bolt (Fastenal #11103915)	42.77	
<i>For >10 To 50, Deduct</i>	-1.41	
<i>For >50 To 100, Deduct</i>	-3.18	
<i>For >100 To 250, Deduct</i>	-6.36	
<i>For >250 To 500, Deduct</i>	-10.94	
<i>For >500, Deduct</i>	-15.52	
06 05 23 00-0249 EA 5/8" - 11 x 6" Threaded x 12" OAL A153 Galvanized Timber Bolt (Fastenal #11103916)	46.18	
<i>For >10 To 50, Deduct</i>	-1.50	
<i>For >50 To 100, Deduct</i>	-3.40	
<i>For >100 To 250, Deduct</i>	-6.80	
<i>For >250 To 500, Deduct</i>	-11.70	
<i>For >500, Deduct</i>	-16.59	
06 05 23 00-0250 EA 5/8" - 11 x 6" Threaded x 14" OAL A153 Galvanized Timber Bolt (Fastenal #11103917)	51.41	
<i>For >10 To 50, Deduct</i>	-1.58	
<i>For >50 To 100, Deduct</i>	-3.66	
<i>For >100 To 250, Deduct</i>	-7.32	
<i>For >250 To 500, Deduct</i>	-12.56	
<i>For >500, Deduct</i>	-17.80	
06 05 23 00-0251 EA 5/8" - 11 x 6" Threaded x 16" OAL A153 Galvanized Timber Bolt (Fastenal #11103918)	54.71	
<i>For >10 To 50, Deduct</i>	-1.67	
<i>For >50 To 100, Deduct</i>	-3.87	
<i>For >100 To 250, Deduct</i>	-7.74	
<i>For >250 To 500, Deduct</i>	-13.28	
<i>For >500, Deduct</i>	-18.82	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0252	EA	5/8"	- 11 x 6" Threaded x 18" OAL A153 Galvanized Timber Bolt (Fastenal #11103919)	56.82	
			<i>For >10 To 50, Deduct</i>	-1.74	
			<i>For >50 To 100, Deduct</i>	-4.03	
			<i>For >100 To 250, Deduct</i>	-8.07	
			<i>For >250 To 500, Deduct</i>	-13.84	
			<i>For >500, Deduct</i>	-19.61	
06 05 23 00-0253	EA	3/4"	- 11 x 4" Threaded x 10" OAL A153 Galvanized Timber Bolt (Fastenal #11103920)	50.92	
			<i>For >10 To 50, Deduct</i>	-1.50	
			<i>For >50 To 100, Deduct</i>	-3.52	
			<i>For >100 To 250, Deduct</i>	-7.04	
			<i>For >250 To 500, Deduct</i>	-12.05	
			<i>For >500, Deduct</i>	-17.07	
06 05 23 00-0254	EA	3/4"	- 11 x 6" Threaded x 12" OAL A153 Galvanized Timber Bolt (Fastenal #11103921)	53.26	
			<i>For >10 To 50, Deduct</i>	-1.56	
			<i>For >50 To 100, Deduct</i>	-3.67	
			<i>For >100 To 250, Deduct</i>	-7.34	
			<i>For >250 To 500, Deduct</i>	-12.56	
			<i>For >500, Deduct</i>	-17.79	
06 05 23 00-0255	EA	3/4"	- 11 x 6" Threaded x 14" OAL A153 Galvanized Timber Bolt (Fastenal #11103922)	58.95	
			<i>For >10 To 50, Deduct</i>	-1.65	
			<i>For >50 To 100, Deduct</i>	-3.95	
			<i>For >100 To 250, Deduct</i>	-7.90	
			<i>For >250 To 500, Deduct</i>	-13.50	
			<i>For >500, Deduct</i>	-19.10	
06 05 23 00-0256	EA	3/4"	- 11 x 6" Threaded x 16" OAL A153 Galvanized Timber Bolt (Fastenal #11103923)	63.27	
			<i>For >10 To 50, Deduct</i>	-1.74	
			<i>For >50 To 100, Deduct</i>	-4.19	
			<i>For >100 To 250, Deduct</i>	-8.37	
			<i>For >250 To 500, Deduct</i>	-14.29	
			<i>For >500, Deduct</i>	-20.21	
06 05 23 00-0257	EA	3/4"	- 11 x 6" Threaded x 18" OAL A153 Galvanized Timber Bolt (Fastenal #11103924)	67.96	
			<i>For >10 To 50, Deduct</i>	-1.82	
			<i>For >50 To 100, Deduct</i>	-4.43	
			<i>For >100 To 250, Deduct</i>	-8.86	
			<i>For >250 To 500, Deduct</i>	-15.11	
			<i>For >500, Deduct</i>	-21.36	
06 05 23 00-0258			Supports <small>(06 05 23)</small>		
06 05 23 00-0259			Shear Plates <small>(06 05 23 00-0258)</small>		
06 05 23 00-0260	EA	2-5/8"	Diameter, Shear Plate	17.79	4.49
			<i>For >10 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.20	
			<i>For >100 To 250, Deduct</i>	-2.40	
			<i>For >250 To 500, Deduct</i>	-4.11	
			<i>For >500, Deduct</i>	-5.82	
06 05 23 00-0261	EA	4"	Diameter, Shear Plate	16.99	4.73
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.22	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-4.17	
			<i>For >500, Deduct</i>	-5.92	
06 05 23 00-0262			Sill Anchors <small>(06 05 23 00-0258)</small>		
06 05 23 00-0263	EA		Sill Anchor Embedded In Concrete	14.90	4.73
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.16	
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-4.02	
			<i>For >500, Deduct</i>	-5.71	
06 05 23 00-0264			Spike Grids <small>(06 05 23 00-0258)</small>		
06 05 23 00-0265	EA	3" x 6"	Flat Or Curved Spike Grid	13.16	4.49
			<i>For >10 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.09	
			<i>For >100 To 250, Deduct</i>	-2.17	
			<i>For >250 To 500, Deduct</i>	-3.76	
			<i>For >500, Deduct</i>	-5.36	
06 05 23 00-0266			Split Rings <small>(06 05 23 00-0258)</small>		
06 05 23 00-0267	EA	2-1/2"	Diameter Split Ring	18.05	4.49
			<i>For >10 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-4.13	
			<i>For >500, Deduct</i>	-5.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0268 EA 4" Diameter Split Ring.....	19.39	4.97
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.31	
<i>For >100 To 250, Deduct</i>	-2.62	
<i>For >250 To 500, Deduct</i>	-4.48	
<i>For >500, Deduct</i>	-6.35	
06 05 23 00-0269 Toothed Rings <small>(06 05 23 00-0258)</small>		
06 05 23 00-0270 EA 2-5/8" Or 4" Toothed Ring.....	14.08	4.49
<i>For >10 To 50, Deduct</i>	-0.51	
<i>For >50 To 100, Deduct</i>	-1.11	
<i>For >100 To 250, Deduct</i>	-2.22	
<i>For >250 To 500, Deduct</i>	-3.83	
<i>For >500, Deduct</i>	-5.45	
06 05 23 00-0271 Straps And Shields <small>(06 05 23)</small>		
06 05 23 00-0272 Shield Plate <small>(06 05 23 00-0271)</small>		
06 05 23 00-0273 EA 5" Wide x 8" Long, 16 Gauge, Galvanized Shield Plate (Simpson Strong Tie® PSPN58Z).....	8.65	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100 To 250, Deduct</i>	-0.58	
<i>For >250 To 500, Deduct</i>	-1.03	
<i>For >500, Deduct</i>	-1.56	
06 05 23 00-0274 EA 5" Wide x 16" Long, 16 Gauge, Galvanized Shield Plate (Simpson Strong Tie® PSPN516Z).....	13.65	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.43	
<i>For >100 To 250, Deduct</i>	-0.86	
<i>For >250 To 500, Deduct</i>	-1.48	
<i>For >500, Deduct</i>	-2.20	
06 05 23 00-0275 Strap Ties <small>(06 05 23 00-0271)</small>		
06 05 23 00-0276 EA 1-1/4" Wide x 9" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA9).....	3.45	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.29	
<i>For >250 To 500, Deduct</i>	-0.56	
<i>For >500, Deduct</i>	-0.90	
06 05 23 00-0277 EA 1-1/4" Wide x 12" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA12).....	3.54	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.30	
<i>For >250 To 500, Deduct</i>	-0.57	
<i>For >500, Deduct</i>	-0.91	
06 05 23 00-0278 EA 1-1/4" Wide x 15" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA15).....	4.51	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100 To 250, Deduct</i>	-0.38	
<i>For >250 To 500, Deduct</i>	-0.72	
<i>For >500, Deduct</i>	-1.15	
06 05 23 00-0279 EA 1-1/4" Wide x 18" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA18).....	4.67	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100 To 250, Deduct</i>	-0.39	
<i>For >250 To 500, Deduct</i>	-0.73	
<i>For >500, Deduct</i>	-1.16	
06 05 23 00-0280 EA 1-1/4" Wide x 21" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA21).....	4.84	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.39	
<i>For >250 To 500, Deduct</i>	-0.74	
<i>For >500, Deduct</i>	-1.18	
06 05 23 00-0281 EA 1-1/4" Wide x 24" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA24).....	5.57	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.46	
<i>For >250 To 500, Deduct</i>	-0.87	
<i>For >500, Deduct</i>	-1.39	
06 05 23 00-0282 EA 1-1/4" Wide x 30" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA30).....	7.13	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100 To 250, Deduct</i>	-0.54	
<i>For >250 To 500, Deduct</i>	-0.99	
<i>For >500, Deduct</i>	-1.55	
06 05 23 00-0283 EA 1-1/4" Wide x 36" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA36).....	8.28	
<i>For >10 To 50, Deduct</i>	-0.11	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.63	
<i>For >250 To 500, Deduct</i>	-1.15	
<i>For >500, Deduct</i>	-1.81	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0284 EA 1-1/4" Wide x 9" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MST A9).....	3.80	
For >10 To 50, Deduct	-0.06	
For >50 To 100, Deduct	-0.16	
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.59	
For >500, Deduct	-0.94	
06 05 23 00-0285 EA 1-1/4" Wide x 12" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MST A12).....	3.93	
For >10 To 50, Deduct	-0.06	
For >50 To 100, Deduct	-0.16	
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.60	
For >500, Deduct	-0.95	
06 05 23 00-0286 EA 1-1/4" Wide x 15" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MST A15).....	5.00	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.75	
For >500, Deduct	-1.20	
06 05 23 00-0287 EA 1-1/4" Wide x 18" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MST A18).....	5.20	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.77	
For >500, Deduct	-1.22	
06 05 23 00-0288 EA 1-1/4" Wide x 21" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MST A21).....	5.30	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.23	
06 05 23 00-0289 EA 1-1/4" Wide x 24" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MST A24).....	6.07	
For >10 To 50, Deduct	-0.09	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.91	
For >500, Deduct	-1.44	
06 05 23 00-0290 EA 1-1/4" Wide x 30" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MST A30).....	7.46	
For >10 To 50, Deduct	-0.09	
For >50 To 100, Deduct	-0.28	
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-1.01	
For >500, Deduct	-1.58	
06 05 23 00-0291 EA 1-1/4" Wide x 36" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MST A36).....	8.29	
For >10 To 50, Deduct	-0.11	
For >50 To 100, Deduct	-0.31	
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.15	
For >500, Deduct	-1.81	
06 05 23 00-0292 EA 1-1/4" Wide x 36" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MST A49).....	12.91	
For >10 To 50, Deduct	-0.12	
For >50 To 100, Deduct	-0.44	
For >100 To 250, Deduct	-0.89	
For >250 To 500, Deduct	-1.57	
For >500, Deduct	-2.41	
06 05 23 00-0293 EA 1-1/4" Wide x 9" Long, 16 Gauge, Galvanized Strap Tie (Simpson Strong Tie® ST9).....	4.45	
For >10 To 50, Deduct	-0.06	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.64	
For >500, Deduct	-1.00	
06 05 23 00-0294 EA 1-1/4" Wide x 12" Long, 16 Gauge, Galvanized Strap Tie (Simpson Strong Tie® ST12).....	4.46	
For >10 To 50, Deduct	-0.06	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.64	
For >500, Deduct	-1.00	
06 05 23 00-0295 EA 1-1/4" Wide x 18" Long, 16 Gauge, Galvanized Strap Tie (Simpson Strong Tie® ST18).....	5.43	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.79	
For >500, Deduct	-1.24	
06 05 23 00-0296 EA 1-1/4" Wide x 22" Long, 16 Gauge, Galvanized Strap Tie (Simpson Strong Tie® ST22).....	7.46	
For >10 To 50, Deduct	-0.09	
For >50 To 100, Deduct	-0.28	
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-1.01	
For >500, Deduct	-1.58	
06 05 23 00-0297 EA 1-3/8" Wide x 6" Long, 12 Gauge, Galvanized Strap Tie (Simpson Strong Tie® HRS6).....	6.31	
For >10 To 50, Deduct	-0.06	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0298 EA 1-3/8" Wide x 8" Long, 12 Gauge, Galvanized Strap Tie (Simpson Strong Tie® HRS8)	6.93	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.82	
<i>For >500, Deduct</i>	-1.25	
06 05 23 00-0299 EA 1-3/8" Wide x 12" Long, 12 Gauge, Galvanized Strap Tie (Simpson Strong Tie® HRS12)	9.08	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100 To 250, Deduct</i>	-0.61	
<i>For >250 To 500, Deduct</i>	-1.06	
<i>For >500, Deduct</i>	-1.60	
06 05 23 00-0300 EA 2-1/16" Wide x 27" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST27)	13.42	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.43	
<i>For >100 To 250, Deduct</i>	-0.85	
<i>For >250 To 500, Deduct</i>	-1.46	
<i>For >500, Deduct</i>	-2.18	
06 05 23 00-0301 EA 2-1/16" Wide x 37" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST37)	16.71	
<i>For >10 To 50, Deduct</i>	-0.11	
<i>For >50 To 100, Deduct</i>	-0.52	
<i>For >100 To 250, Deduct</i>	-1.05	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.65	
06 05 23 00-0302 EA 2-1/16" Wide x 48" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST48)	24.58	
<i>For >10 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.74	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-3.57	
06 05 23 00-0303 EA 2-1/16" Wide x 60" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST60)	42.50	
<i>For >10 To 50, Deduct</i>	-0.14	
<i>For >50 To 100, Deduct</i>	-1.20	
<i>For >100 To 250, Deduct</i>	-2.40	
<i>For >250 To 500, Deduct</i>	-3.87	
<i>For >500, Deduct</i>	-5.50	
06 05 23 00-0304 EA 2-1/16" Wide x 72" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST72)	54.69	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-1.52	
<i>For >100 To 250, Deduct</i>	-3.04	
<i>For >250 To 500, Deduct</i>	-4.86	
<i>For >500, Deduct</i>	-6.86	
06 05 23 00-0305 EA 3" Wide x 28-1/4" Long, 16 Gauge, Galvanized Strap Ties (Simpson Strong Tie® MSTC28).....	15.94	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.49	
<i>For >100 To 250, Deduct</i>	-0.98	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-2.43	
06 05 23 00-0306 EA 3" Wide x 40-1/4" Long, 16 Gauge, Galvanized Strap Ties (Simpson Strong Tie® MSTC40).....	20.55	
<i>For >10 To 50, Deduct</i>	-0.11	
<i>For >50 To 100, Deduct</i>	-0.62	
<i>For >100 To 250, Deduct</i>	-1.24	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-3.03	
06 05 23 00-0307 EA 3" Wide x 52-1/4" Long, 16 Gauge, Galvanized Strap Ties (Simpson Strong Tie® MSTC52).....	23.98	
<i>For >10 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.72	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-3.51	
06 05 23 00-0308 EA 3" Wide x 66-1/4" Long, 16 Gauge, Galvanized Strap Ties (Simpson Strong Tie® MSTC66).....	36.31	
<i>For >10 To 50, Deduct</i>	-0.14	
<i>For >50 To 100, Deduct</i>	-1.04	
<i>For >100 To 250, Deduct</i>	-2.09	
<i>For >250 To 500, Deduct</i>	-3.40	
<i>For >500, Deduct</i>	-4.88	
06 05 23 00-0309 Twist Strap Ties <small>(06 05 23 00-0271)</small>		
06 05 23 00-0310 EA 1-1/4" Wide x 12" Long, 18 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® LTS12).....	4.00	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.16	
<i>For >100 To 250, Deduct</i>	-0.32	
<i>For >250 To 500, Deduct</i>	-0.60	
<i>For >500, Deduct</i>	-0.96	
06 05 23 00-0311 EA 1-1/4" Wide x 16" Long, 18 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® LTS16).....	5.00	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100 To 250, Deduct</i>	-0.39	
<i>For >250 To 500, Deduct</i>	-0.72	
<i>For >500, Deduct</i>	-1.13	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0312 EA 1-1/4" Wide x 18" Long, 18 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® LTS18).....	5.75	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.22	
For>100 To 250, Deduct	-0.44	
For>250 To 500, Deduct	-0.81	
For>500, Deduct	-1.27	
06 05 23 00-0313 EA 1-1/4" Wide x 20" Long, 18 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® LTS20).....	6.23	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.24	
For>100 To 250, Deduct	-0.48	
For>250 To 500, Deduct	-0.88	
For>500, Deduct	-1.39	
06 05 23 00-0314 EA 1-1/4" Wide x 12" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS12).....	3.96	
For>10 To 50, Deduct	-0.06	
For>50 To 100, Deduct	-0.16	
For>100 To 250, Deduct	-0.32	
For>250 To 500, Deduct	-0.60	
For>500, Deduct	-0.95	
06 05 23 00-0315 EA 1-1/4" Wide x 16" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS16).....	5.08	
For>10 To 50, Deduct	-0.07	
For>50 To 100, Deduct	-0.20	
For>100 To 250, Deduct	-0.39	
For>250 To 500, Deduct	-0.72	
For>500, Deduct	-1.14	
06 05 23 00-0316 EA 1-1/4" Wide x 18" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS18).....	5.89	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.22	
For>100 To 250, Deduct	-0.45	
For>250 To 500, Deduct	-0.82	
For>500, Deduct	-1.29	
06 05 23 00-0317 EA 1-1/4" Wide x 20" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS20).....	6.28	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.24	
For>100 To 250, Deduct	-0.48	
For>250 To 500, Deduct	-0.89	
For>500, Deduct	-1.39	
06 05 23 00-0318 EA 1-1/4" Wide x 24" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS24).....	8.50	
For>10 To 50, Deduct	-0.09	
For>50 To 100, Deduct	-0.30	
For>100 To 250, Deduct	-0.61	
For>250 To 500, Deduct	-1.09	
For>500, Deduct	-1.68	
06 05 23 00-0319 EA 1-1/4" Wide x 16" Long, 14 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® HTS16).....	6.50	
For>10 To 50, Deduct	-0.07	
For>50 To 100, Deduct	-0.23	
For>100 To 250, Deduct	-0.46	
For>250 To 500, Deduct	-0.83	
For>500, Deduct	-1.28	
06 05 23 00-0320 EA 1-1/4" Wide x 20" Long, 14 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® HTS20).....	7.78	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.28	
For>100 To 250, Deduct	-0.56	
For>250 To 500, Deduct	-1.00	
For>500, Deduct	-1.54	
06 05 23 00-0321 EA 1-1/4" Wide x 24" Long, 14 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® HTS24).....	9.02	
For>10 To 50, Deduct	-0.09	
For>50 To 100, Deduct	-0.32	
For>100 To 250, Deduct	-0.63	
For>250 To 500, Deduct	-1.13	
For>500, Deduct	-1.74	
06 05 23 00-0322 Retrofit Plate Strap <small>(06 05 23 00-0271)</small>		
06 05 23 00-0323 EA 1-3/8" Wide x 18-5/16" Long, 16 Gauge, Galvanized Retrofit Plate Strap (Simpson Strong Tie® RPS18).....	6.53	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.24	
For>100 To 250, Deduct	-0.48	
For>250 To 500, Deduct	-0.87	
For>500, Deduct	-1.35	
06 05 23 00-0324 EA 1-3/8" Wide x 22-5/16" Long, 16 Gauge, Galvanized Retrofit Plate Strap (Simpson Strong Tie® RPS22).....	7.43	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.26	
For>100 To 250, Deduct	-0.52	
For>250 To 500, Deduct	-0.94	
For>500, Deduct	-1.44	
06 05 23 00-0325 EA 1-3/8" Wide x 28-5/16" Long, 16 Gauge, Galvanized Retrofit Plate Strap (Simpson Strong Tie® RPS28).....	8.86	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.30	
For>100 To 250, Deduct	-0.59	
For>250 To 500, Deduct	-1.04	
For>500, Deduct	-1.58	
06 05 23 00-0326 Stud Shoe <small>(06 05 23 00-0271)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0327 EA 6" High With 3-1/4" Wide Tabs For 2X Stud, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® SS1.5).....	11.02	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.37	
<i>For >100 To 250, Deduct</i>	-0.73	
<i>For >250 To 500, Deduct</i>	-1.28	
<i>For >500, Deduct</i>	-1.94	
06 05 23 00-0328 EA 6" High With 3-1/4" Wide Tabs For 3X Stud, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® SS2.5).....	21.53	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.63	
<i>For >100 To 250, Deduct</i>	-1.26	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.99	
06 05 23 00-0329 EA 6" High With 3-1/4" Wide Tabs For 2-2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® SS3).....	21.63	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.63	
<i>For >100 To 250, Deduct</i>	-1.26	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-3.00	
06 05 23 00-0330 EA 6" High With 3-1/4" Wide Tabs For 3-2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® SS4.5).....	28.94	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.81	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.62	
<i>For >500, Deduct</i>	-3.73	
06 05 23 00-0331 EA 7-1/8" High With 3-1/4" Wide Tabs For 2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® HSS2- SDS1.5).....	27.20	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.77	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-3.55	
06 05 23 00-0332 EA 7-1/8" High With 3-1/4" Wide Tabs For 2-2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie HSS2- 2-SDS3).....	29.45	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.83	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.66	
<i>For >500, Deduct</i>	-3.78	
06 05 23 00-0333 EA 7-1/8" High With 3-1/4" Wide Tabs For 3-2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® HSS2-3-SDS3).....	31.17	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.87	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.95	
06 05 23 00-0334 EA 7-1/8" High With 3-1/4" Wide Tabs For 4X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® HSS4- SDS3).....	47.02	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-1.27	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.98	
<i>For >500, Deduct</i>	-5.54	
06 05 23 00-0335 Nail Stops <small>(06 05 23 00-0271)</small>		
06 05 23 00-0336 EA 1-1/2" Wide x 3" Long, 16 Gauge, Galvanized Nail Stops (Simpson Strong Tie® NS1).....	3.19	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.14	
<i>For >100 To 250, Deduct</i>	-0.28	
<i>For >250 To 500, Deduct</i>	-0.54	
<i>For >500, Deduct</i>	-0.88	
06 05 23 00-0337 EA 1-1/2" Wide x 6" Long, 16 Gauge, Galvanized Nail Stops (Simpson Strong Tie® NS2).....	3.33	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.14	
<i>For >100 To 250, Deduct</i>	-0.29	
<i>For >250 To 500, Deduct</i>	-0.55	
<i>For >500, Deduct</i>	-0.89	
06 05 73 Wood Treatment <small>(06 05)</small>		
06 05 73 13 Fire-Retardant Wood Treatment <small>(06 05 73)</small>		
06 05 73 13-0001 Preservative Treated Lumber <small>(06 05 73 13)</small>		
06 05 73 13-0002 Fire Retardant Treatment (FRT) For Lumber <small>(06 05 73 13-0001)</small>		
06 05 73 13-0003 MBF Fire Retardant Treatment (FRT) For Lumber.....	742.35	
06 05 73 33 Preservative Wood Treatment <small>(06 05 73)</small>		
06 05 73 33-0001 Preservative Treatment For Marine And Fresh Water Uses <small>(06 05 73 33)</small>		
06 05 73 33-0002 MBF Preservative Treatment For Marine And Fresh Water Lumber.....	182.41	

06 Wood, Plastics, and Composites**06 10 Rough Carpentry**

06 05 73 Wood Treatment

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**06 10 Rough Carpentry** ⁽⁰⁶⁾**06 11 Wood Framing** ^(06 10)

Note: All framing lumber is grade #2 or better unless otherwise listed. Dimensions are nominal. See CSI section 06 05 23 00-0000 for anchors and supports.

06 11 13 Engineered Wood Products ^(06 11)

Note: All framing lumber is grade #2 or better unless otherwise listed. Dimensions are nominal.

06 11 13 00-0001 Built-Up Members ^(06 11 13)

Note: A structural framing member made from fastening separate pieces of lumber together.

06 11 13 00-0002 Built-Up Beams Or Joists ^(06 11 13 00-0001)

06 11 13 00-0003	LF	Two 2" x 6" Built-up Wood Beam Or Joist.....	5.42	2.07
		<i>For Each Additional 2" x_" In The Built Up Member, Add</i>	1.12	
06 11 13 00-0004	LF	Two 2" x 8" Built-up Wood Beam Or Joist.....	6.84	2.45
		<i>For Each Additional 2" x_" In The Built Up Member, Add</i>	1.59	
06 11 13 00-0005	LF	Two 2" x 10" Built-up Wood Beam Or Joist.....	8.81	2.93
		<i>For Each Additional 2" x_" In The Built Up Member, Add</i>	2.21	

06 11 13 00-0006 Built-Up Posts ^(06 11 13 00-0001)

06 11 13 00-0007	LF	Two 2" x 6" Built-up Wood Post.....	5.42	2.07
		<i>For Each Additional 2" x_" In The Built Up Member, Add</i>	1.12	
06 11 13 00-0008	LF	Two 2" x 8" Built-up Wood Post.....	6.84	2.45
		<i>For Each Additional 2" x_" In The Built Up Member, Add</i>	1.59	
06 11 13 00-0009	LF	Two 2" x 10" Built-up Wood Post.....	8.81	2.93
		<i>For Each Additional 2" x_" In The Built Up Member, Add</i>	2.21	

06 11 16 Mechanically Graded Lumber ^(06 11)**06 11 16 00-0001 Rafters And Joists** ^(06 11 16)**06 11 16 00-0002 Rafters** ^(06 11 16 00-0001)

Note: An inclined roof framing member to which a roof covering is attached.

06 11 16 00-0003	LF	2" x 6" Wood Rafter	3.07	1.46
06 11 16 00-0004	LF	2" x 8" Wood Rafter	3.66	1.58
06 11 16 00-0005	LF	2" x 10" Wood Rafter	5.27	2.31
06 11 16 00-0006	LF	2" x 12" Wood Rafter	6.10	2.57
06 11 16 00-0007	LF	2" x 14" Wood Rafter	6.63	2.81
06 11 16 00-0008	LF	2" x 6" Pressure Treated Wood Rafter.....	3.15	1.46
06 11 16 00-0009	LF	2" x 8" Pressure Treated Wood Rafter.....	3.76	1.58
06 11 16 00-0010	LF	2" x 10" Pressure Treated Wood Rafter.....	5.15	2.31
06 11 16 00-0011	LF	2" x 12" Pressure Treated Wood Rafter.....	6.14	2.57

06 11 16 00-0012 Joists ^(06 11 16 00-0001)

Note: A series of parallel beams to support floors or ceilings.

06 11 16 00-0013	LF	2" x 6" Wood Floor Joist.....	2.70	1.22
06 11 16 00-0014	LF	2" x 8" Wood Floor Joist.....	3.42	1.34
06 11 16 00-0015	LF	2" x 10" Wood Floor Joist.....	4.40	1.71
06 11 16 00-0016	LF	2" x 12" Wood Floor Joist.....	5.25	1.95
06 11 16 00-0017	LF	2" x 14" Wood Floor Joist.....	5.78	2.07
06 11 16 00-0018	LF	2" x 6" Pressure Treated Wood Floor Joist.....	2.78	1.22
06 11 16 00-0019	LF	2" x 8" Pressure Treated Wood Floor Joist.....	3.52	1.34
06 11 16 00-0020	LF	2" x 10" Pressure Treated Wood Floor Joist.....	4.28	1.71
06 11 16 00-0021	LF	2" x 12" Pressure Treated Wood Floor Joist.....	5.29	1.95

06 11 16 00-0022 Purlins ^(06 11 16 00-0001)

Note: A horizontal structural member in a roof, supporting the loads from the roof deck or sheathing.

06 11 16 00-0023	LF	2" x 4" Wood Purlin.....	2.13	0.73
06 11 16 00-0024	LF	2" x 6" Wood Purlin	2.73	0.80
06 11 16 00-0025	LF	2" x 8" Wood Purlin	3.36	0.89
06 11 16 00-0026	LF	2" x 10" Wood Purlin	4.16	0.97
06 11 16 00-0027	LF	2" x 4" Pressure Treated Wood Purlin	2.18	0.73
06 11 16 00-0028	LF	2" x 6" Pressure Treated Wood Purlin	2.81	0.80
06 11 16 00-0029	LF	2" x 8" Pressure Treated Wood Purlin	3.46	0.89
06 11 16 00-0030	LF	2" x 10" Pressure Treated Wood Purlin	4.04	0.97

06 11 16 00-0031 Exposed Rafters Or Joists ^(06 11 16 00-0001)**06 11 16 00-0032 Redwood Rafters Or Joists** ^(06 11 16 00-0031)

06 11 16 00-0033	LF	2" x 6" Redwood Rafter Or Joist	4.35	1.22
06 11 16 00-0034	LF	2" x 8" Redwood Rafter Or Joist	5.34	1.34
06 11 16 00-0035	LF	2" x 10" Redwood Rafter Or Joist	6.67	1.71
06 11 16 00-0036	LF	2" x 12" Redwood Rafter Or Joist.....	8.12	1.95

06 11 16 00-0037 Cedar Rafters Or Joists ^(06 11 16 00-0031)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0038 LF 2" x 6" Cedar Rafter Or Joist.....	2.71	1.22
06 11 16 00-0039 LF 2" x 8" Cedar Rafter Or Joist.....	3.04	1.34
06 11 16 00-0040 LF 2" x 10" Cedar Rafter Or Joist.....	3.47	1.71
06 11 16 00-0041 LF 2" x 12" Cedar Rafter Or Joist.....	3.92	1.95
06 11 16 00-0042 Oak Rafters Or Joists <small>(06 11 16 00-0031)</small>		
06 11 16 00-0043 LF 2" x 6" Oak Rafter Or Joist.....	3.38	1.22
06 11 16 00-0044 LF 2" x 8" Oak Rafter Or Joist.....	4.73	1.34
06 11 16 00-0045 LF 2" x 10" Oak Rafter Or Joist.....	6.19	1.71
06 11 16 00-0046 LF 2" x 12" Oak Rafter Or Joist.....	7.67	1.95
06 11 16 00-0047 Framing <small>(06 11 16)</small>		
06 11 16 00-0048 Partition Framing <small>(06 11 16 00-0047)</small>		
06 11 16 00-0049 LF 2" x 4" Wood Stud Framing, For Partition Walls.....	2.07	0.97
06 11 16 00-0050 LF 2" x 6" Wood Stud Framing, For Partition Walls.....	2.58	1.04
06 11 16 00-0051 LF 2" x 8" Wood Stud Framing, For Partition Walls.....	3.11	1.10
06 11 16 00-0052 LF 2" x 4" Pressure Treated Wood Stud Framing, For Partition Walls.....	2.12	0.97
06 11 16 00-0053 LF 2" x 6" Pressure Treated Wood Stud Framing, For Partition Walls.....	2.66	1.04
06 11 16 00-0054 LF 2" x 8" Pressure Treated Wood Stud Framing, For Partition Walls.....	3.21	1.10
06 11 16 00-0055 Wall Framing Assemblies By The SF <small>(06 11 16 00-0047)</small>		
<small>Note: Includes single bottom and double top plates, center support bracing, vertical studs and appropriate fastening devices. Excludes blocking for wall mounted fixtures or cabinets. Per SF of wall area measures one side. Do not deduct for openings of less than 25 SF when calculating total wall square footage.</small>		
06 11 16 00-0056 Wall Framing By The SF, 12" On Center <small>(06 11 16 00-0055)</small>		
06 11 16 00-0057 SF 2" x 4" Wood Wall Framing At 12" On Center.....	2.71	1.18
<i>For Up To 200, Add</i>	<i>0.89</i>	
<i>For >200 To 500, Add</i>	<i>0.45</i>	
06 11 16 00-0058 SF 2" x 6" Wood Wall Framing At 12" On Center.....	3.67	1.51
<i>For Up To 200, Add</i>	<i>1.18</i>	
<i>For >200 To 500, Add</i>	<i>0.59</i>	
06 11 16 00-0059 SF 2" x 8" Wood Wall Framing At 12" On Center.....	4.89	2.02
<i>For Up To 200, Add</i>	<i>1.57</i>	
<i>For >200 To 500, Add</i>	<i>0.79</i>	
06 11 16 00-0060 Wall Framing By The SF, 16" On Center <small>(06 11 16 00-0055)</small>		
06 11 16 00-0061 SF 2" x 4" Wood Wall Framing At 16" On Center.....	2.21	0.95
<i>For Up To 200, Add</i>	<i>0.72</i>	
<i>For >200 To 500, Add</i>	<i>0.36</i>	
06 11 16 00-0062 SF 2" x 6" Wood Wall Framing At 16" On Center.....	3.05	1.26
<i>For Up To 200, Add</i>	<i>0.98</i>	
<i>For >200 To 500, Add</i>	<i>0.49</i>	
06 11 16 00-0063 SF 2" x 8" Wood Wall Framing At 16" On Center.....	4.08	1.68
<i>For Up To 200, Add</i>	<i>1.31</i>	
<i>For >200 To 500, Add</i>	<i>0.66</i>	
06 11 16 00-0064 Wall Framing By The SF, 24" On Center <small>(06 11 16 00-0055)</small>		
06 11 16 00-0065 SF 2" x 4" Wood Wall Framing At 24" On Center.....	1.74	0.74
<i>For Up To 200, Add</i>	<i>0.57</i>	
<i>For >200 To 500, Add</i>	<i>0.29</i>	
06 11 16 00-0066 SF 2" x 6" Wood Wall Framing At 24" On Center.....	2.40	0.98
<i>For Up To 200, Add</i>	<i>0.77</i>	
<i>For >200 To 500, Add</i>	<i>0.39</i>	
06 11 16 00-0067 SF 2" x 8" Wood Wall Framing At 24" On Center.....	3.20	1.31
<i>For Up To 200, Add</i>	<i>1.03</i>	
<i>For >200 To 500, Add</i>	<i>0.51</i>	
06 11 16 00-0068 Sills And Plates <small>(06 11 16)</small>		
06 11 16 00-0069 Sills <small>(06 11 16 00-0068)</small>		
<small>Note: A horizontal member which rests on and is attached to the foundation.</small>		
06 11 16 00-0070 LF 2" x 4" Wood Sill.....	3.41	1.83
06 11 16 00-0071 LF 2" x 6" Wood Sill.....	4.18	2.07
06 11 16 00-0072 LF 2" x 8" Wood Sill.....	5.03	2.31
06 11 16 00-0073 LF 2" x 4" Pressure Treated Wood Sill.....	3.46	1.83
06 11 16 00-0074 LF 2" x 6" Pressure Treated Wood Sill.....	4.26	2.07
06 11 16 00-0075 LF 2" x 8" Pressure Treated Wood Sill.....	5.13	2.31
06 11 16 00-0076 Plates <small>(06 11 16 00-0068)</small>		
<small>Note: A horizontal member connecting and terminating studs, posts, joists, rafters, etc. such as the top and bottom plate on a stud framed partition wall.</small>		
06 11 16 00-0077 LF 2" x 4" Wood Plate.....	3.41	1.83
06 11 16 00-0078 LF 2" x 6" Wood Plate.....	4.18	2.07
06 11 16 00-0079 LF 2" x 8" Wood Plate.....	5.01	2.31

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 11 Wood Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0080 LF 2" x 4" Pressure Treated Wood Plate	3.46	1.83
06 11 16 00-0081 LF 2" x 6" Pressure Treated Wood Plate	4.26	2.07
06 11 16 00-0082 LF 2" x 8" Pressure Treated Wood Plate	5.11	2.31
06 11 16 00-0083 Sills And Plates From Redwood (06 11 16 00-0083)		
06 11 16 00-0084 Construction Grade/Rough (06 11 16 00-0083)		
06 11 16 00-0085 LF 2" x 6" Redwood, Construction Grade/Rough	6.19	2.07
06 11 16 00-0086 LF 2" x 8" Redwood, Construction Grade/Rough	8.22	2.31
06 11 16 00-0087 LF 2" x 10" Redwood, Construction Grade/Rough	9.99	2.57
06 11 16 00-0088 LF 2" x 12" Redwood, Construction Grade/Rough	12.05	2.81
06 11 16 00-0089 Con Heart/Smooth (06 11 16 00-0083)		
06 11 16 00-0090 LF 2" x 6" Redwood, Con Heart/Smooth	7.52	2.07
06 11 16 00-0091 LF 2" x 8" Redwood, Con Heart/Smooth	10.22	2.31
06 11 16 00-0092 LF 2" x 10" Redwood, Con Heart/Smooth	13.38	2.57
06 11 16 00-0093 LF 2" x 12" Redwood, Con Heart/Smooth	16.08	2.81
06 11 16 00-0094 Suspended Ceiling Framing (06 11 16)		
06 11 16 00-0095 LF 1" x 2" Wood Suspended Ceiling Framing	2.75	1.58
06 11 16 00-0096 LF 1" x 3" Wood Suspended Ceiling Framing	3.03	1.71
06 11 16 00-0097 LF 1" x 4" Wood Suspended Ceiling Framing	3.18	1.83
06 11 16 00-0098 LF 2" x 2" Wood Suspended Ceiling Framing	3.30	1.83
06 11 16 00-0099 LF 2" x 4" Wood Suspended Ceiling Framing	3.92	2.07
06 11 16 00-0100 LF 1" x 2" Pressure Treated Wood Suspended Ceiling Framing	2.88	1.58
06 11 16 00-0101 LF 1" x 3" Pressure Treated Wood Suspended Ceiling Framing	3.05	1.71
06 11 16 00-0102 LF 1" x 4" Pressure Treated Wood Suspended Ceiling Framing	3.25	1.83
06 11 16 00-0103 LF 2" x 2" Pressure Treated Wood Suspended Ceiling Framing	3.34	1.83
06 11 16 00-0104 LF 2" x 4" Pressure Treated Wood Suspended Ceiling Framing	3.90	2.07
06 11 16 00-0105 Posts And Girts (06 11 16)		
06 11 16 00-0106 Posts (06 11 16 00-0105)		
Note: A vertical, upright framing member.		
06 11 16 00-0107 LF 4" x 4" Wood Post	5.12	2.31
06 11 16 00-0108 LF 4" x 5" Wood Post	5.87	2.69
06 11 16 00-0109 LF 4" x 6" Wood Post	6.45	2.93
06 11 16 00-0110 LF 6" x 6" Wood Post	7.19	3.18
06 11 16 00-0111 LF 8" x 8" Wood Post	7.94	3.30
06 11 16 00-0112 LF 10" x 10" Wood Post	8.66	3.79
06 11 16 00-0113 LF 4" x 4" Pressure Treated Wood Post	6.17	2.31
06 11 16 00-0114 LF 3" x 6" Pressure Treated Wood Post	7.10	2.93
06 11 16 00-0115 LF 4" x 6" Pressure Treated Wood Post	8.64	2.93
06 11 16 00-0116 LF 6" x 6" Pressure Treated Wood Post	12.00	3.18
06 11 16 00-0117 Girts (06 11 16 00-0105)		
Note: A horizontal member at intermediate level between columns, studs, or posts.		
06 11 16 00-0118 LF 2" x 4" Wood Girt	2.43	0.88
06 11 16 00-0119 LF 2" x 6" Wood Girt	3.05	0.96
06 11 16 00-0120 LF 2" x 8" Wood Girt	3.71	1.07
06 11 16 00-0121 LF 2" x 10" Wood Girt	4.55	1.17
06 11 16 00-0122 LF 4" x 4" Wood Girt	4.93	1.76
06 11 16 00-0123 LF 4" x 5" Wood Girt	5.69	1.98
06 11 16 00-0124 LF 4" x 6" Wood Girt	6.42	2.19
06 11 16 00-0125 LF 6" x 6" Wood Girt	7.16	2.42
06 11 16 00-0126 LF 8" x 8" Wood Girt	7.91	2.64
06 11 16 00-0127 LF 10" x 10" Wood Girt	8.64	2.87
06 11 16 00-0128 LF 2" x 4" Pressure Treated Wood Girt	2.48	0.88
06 11 16 00-0129 LF 2" x 6" Pressure Treated Wood Girt	3.13	0.96
06 11 16 00-0130 LF 2" x 8" Pressure Treated Wood Girt	3.81	1.07
06 11 16 00-0131 LF 2" x 10" Pressure Treated Wood Girt	4.43	1.17
06 11 16 00-0132 LF 4" x 4" Pressure Treated Wood Girt	6.17	1.76
06 11 16 00-0133 LF 3" x 6" Pressure Treated Wood Girt	7.10	2.19
06 11 16 00-0134 LF 4" x 6" Pressure Treated Wood Girt	8.64	2.19
06 11 16 00-0135 LF 6" x 6" Pressure Treated Wood Girt	12.00	2.42
06 11 16 00-0136 Construction Grade/Rough Redwood Posts (06 11 16 00-0105)		
06 11 16 00-0137 LF 4" x 4" Redwood, Construction Grade/Rough Post	9.55	2.31
For Smooth "Clear", Add	1.21	
06 11 16 00-0138 LF 4" x 5" Redwood, Construction Grade/Rough Post	11.49	2.69
For Smooth "Clear", Add	1.51	
06 11 16 00-0139 LF 4" x 6" Redwood, Construction Grade/Rough Post	13.47	2.93
For Smooth "Clear", Add	1.82	
06 11 16 00-0140 LF 4" x 8" Redwood, Construction Grade/Rough Post	16.68	3.01
For Smooth "Clear", Add	2.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0141 LF 4" x 10" Redwood, Construction Grade/Rough Post..... <i>For Smooth "Clear", Add</i>	19.98 3.02	3.21
06 11 16 00-0142 LF 6" x 6" Redwood, Construction Grade/Rough Post..... <i>For Smooth "Clear", Add</i>	18.45 2.72	3.18
06 11 16 00-0143 LF 6" x 8" Redwood, Construction Grade/Rough Post..... <i>For Smooth "Clear", Add</i>	23.17 3.63	3.30
06 11 16 00-0144 LF 6" x 10" Redwood, Construction Grade/Rough Post..... <i>For Smooth "Clear", Add</i>	27.85 4.54	3.10
06 11 16 00-0145 LF 8" x 8" Redwood, Construction Grade/Rough Post..... <i>For Smooth "Clear", Add</i>	29.49 4.84	3.30
06 11 16 00-0146 Stair Stringers <small>(06 11 16)</small>		
06 11 16 00-0147 LF 2" x 10" Wood Stair Stringer	9.50	4.88
06 11 16 00-0148 LF 2" x 12" Wood Stair Stringer	11.26	5.73
06 11 16 00-0149 LF 2" x 10" Pressure Treated Wood Stair Stringer.....	9.42	4.88
06 11 16 00-0150 LF 2" x 12" Pressure Treated Wood Stair Stringer.....	11.27	5.73
06 11 16 00-0151 Blocking And Sleepers <small>(06 11 16)</small>		
06 11 16 00-0152 Blocking <small>(06 11 16 00-0151)</small>		
06 11 16 00-0153 Blocking To Wood <small>(06 11 16 00-0152)</small>		
06 11 16 00-0154 LF 2" x 4" Pressure Treated Wood Blocking To Wood	6.90	2.93
06 11 16 00-0155 LF 2" x 6" Pressure Treated Wood Blocking To Wood	8.18	3.23
06 11 16 00-0156 LF 2" x 8" Pressure Treated Wood Blocking To Wood	9.33	3.54
06 11 16 00-0157 LF 4" x 4" Pressure Treated Wood Blocking To Wood	10.81	3.90
06 11 16 00-0158 LF 4" x 6" Pressure Treated Wood Blocking To Wood	13.05	4.29
06 11 16 00-0159 LF 2" x 4" Wood Blocking To Wood	6.53	2.93
06 11 16 00-0160 LF 2" x 6" Wood Blocking To Wood	7.57	3.23
06 11 16 00-0161 LF 2" x 8" Wood Blocking To Wood	8.69	3.54
06 11 16 00-0162 LF 4" x 4" Wood Blocking To Wood	9.43	3.90
06 11 16 00-0163 LF 4" x 6" Wood Blocking To Wood	10.65	4.29
06 11 16 00-0164 Blocking To Steel <small>(06 11 16 00-0152)</small>		
06 11 16 00-0165 LF 2" x 4" Pressure Treated Wood Blocking To Steel.....	7.89	3.38
06 11 16 00-0166 LF 2" x 6" Pressure Treated Wood Blocking To Steel.....	9.32	3.71
06 11 16 00-0167 LF 2" x 8" Pressure Treated Wood Blocking To Steel.....	10.62	4.08
06 11 16 00-0168 LF 2" x 4" Wood Blocking To Steel	7.49	3.38
06 11 16 00-0169 LF 2" x 6" Wood Blocking To Steel	8.65	3.71
06 11 16 00-0170 LF 2" x 8" Wood Blocking To Steel	9.92	4.08
06 11 16 00-0171 Blocking To Concrete <small>(06 11 16 00-0152)</small>		
06 11 16 00-0172 LF 2" x 4" Pressure Treated Wood Blocking To Concrete	7.89	3.38
06 11 16 00-0173 LF 2" x 6" Pressure Treated Wood Blocking To Concrete	9.32	3.71
06 11 16 00-0174 LF 2" x 8" Pressure Treated Wood Blocking To Concrete	10.62	4.08
06 11 16 00-0175 LF 2" x 4" Wood Blocking To Concrete	7.49	3.38
06 11 16 00-0176 LF 2" x 6" Wood Blocking To Concrete	8.65	3.71
06 11 16 00-0177 LF 2" x 8" Wood Blocking To Concrete.....	9.92	4.08
06 11 16 00-0178 Pressure Treated Lattice <small>(06 11 16 00-0151)</small>		
06 11 16 00-0179 SF 3/4" Thick Pressure Treated Wood Lattice	8.32	2.57
06 11 16 00-0180 Sleepers <small>(06 11 16 00-0151)</small>		
06 11 16 00-0181 Sleepers To Wood <small>(06 11 16 00-0180)</small>		
06 11 16 00-0182 LF 1" x 2" Pressure Treated Wood Sleeper On Wood.....	1.28	0.43
06 11 16 00-0183 LF 1" x 3" Pressure Treated Wood Sleeper On Wood.....	1.45	0.49
06 11 16 00-0184 LF 1" x 4" Pressure Treated Wood Sleeper On Wood.....	1.74	0.55
06 11 16 00-0185 LF 2" x 4" Pressure Treated Wood Sleeper On Wood.....	2.39	0.67
06 11 16 00-0186 LF 2" x 6" Pressure Treated Wood Sleeper On Wood.....	3.20	0.73
06 11 16 00-0187 Sleepers To Concrete <small>(06 11 16 00-0180)</small>		
06 11 16 00-0188 LF 1" x 2" Pressure Treated Wood Sleeper On Concrete.....	1.32	0.43
06 11 16 00-0189 LF 1" x 3" Pressure Treated Wood Sleeper On Concrete.....	1.50	0.49
06 11 16 00-0190 LF 1" x 4" Pressure Treated Wood Sleeper On Concrete.....	1.81	0.55
06 11 16 00-0191 LF 2" x 4" Pressure Treated Wood Sleeper On Concrete.....	2.49	0.67
06 11 16 00-0192 LF 2" x 6" Pressure Treated Wood Sleeper On Concrete.....	3.37	0.73
06 11 16 00-0193 Roofing Nailers <small>(06 11 16)</small>		
06 11 16 00-0194 LF 2" x 4" Pressure Treated Lumber, For Roofing Nailers.....	3.53	0.97
06 11 16 00-0195 LF 2" x 6" Pressure Treated Lumber, For Roofing Nailers.....	4.13	1.04
06 11 16 00-0196 LF 2" x 8" Pressure Treated Lumber, For Roofing Nailers.....	4.75	1.10

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 11 Wood Framing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0197			Roofing Sleepers <small>(06 11 16)</small>		
06 11 16 00-0198	LF		2" x 4" Pressure Treated Lumber, For Roofing Sleepers	1.63	
06 11 16 00-0199	LF		4" x 4" Pressure Treated Lumber, For Roofing Sleepers	4.44	
06 11 16 00-0200	LF		4" x 6" Pressure Treated Lumber, For Roofing Sleepers	6.44	
06 11 16 00-0201	LF		6" x 6" Pressure Treated Lumber, For Roofing Sleepers	9.61	
06 11 16 00-0202			Canopy Framing, Bridging, And Furring <small>(06 11 16)</small>		
06 11 16 00-0203			Wood And Steel Bridging <small>(06 11 16 00-0203)</small>		
06 11 16 00-0204			Wood Bridging <small>(06 11 16 00-0203)</small>		
06 11 16 00-0205	EA		1 Pair Wood Bridging, 1" x 3" Cross Type	9.98	4.28
			Note: For joists spaced at 16" on center.		
06 11 16 00-0206	EA		1 Pair Wood Bridging, 2" x 3" Cross Type	10.35	4.28
			Note: For joists spaced at 16" on center.		
06 11 16 00-0207			Steel Bridging <small>(06 11 16 00-0203)</small>		
06 11 16 00-0208	EA		1 Pair Steel Bridging, Wood Joists At 16" On Center.....	12.00	4.28
06 11 16 00-0209	EA		1 Pair Steel Bridging, Wood Joists At 24" On Center.....	11.97	4.28
06 11 16 00-0210			Light Framing, Trim And Furring <small>(06 11 16 00-0210)</small>		
06 11 16 00-0211			Pine/Spruce/Fir Light Framing, Trim And Furring <small>(06 11 16 00-0210)</small>		
			Note: S4S board, select grade 1		
06 11 16 00-0212	LF		1" x 1" Pine/Spruce/Fir Light Framing, Trim And Furring	2.21	1.00
06 11 16 00-0213	LF		1" x 2" Pine/Spruce/Fir Light Framing, Trim And Furring	2.49	1.10
06 11 16 00-0214	LF		1" x 4" Pine/Spruce/Fir Light Framing, Trim And Furring	2.91	1.21
06 11 16 00-0215	LF		1" x 6" Pine/Spruce/Fir Light Framing, Trim And Furring	3.25	1.33
06 11 16 00-0216	LF		1" x 8" Pine/Spruce/Fir Light Framing, Trim And Furring	3.61	1.46
06 11 16 00-0217	LF		1" x 10" Pine/Spruce/Fir Light Framing, Trim And Furring	4.00	1.61
06 11 16 00-0218	LF		2" x 2" Pine/Spruce/Fir Light Framing, Trim And Furring	3.27	1.33
06 11 16 00-0219	LF		2" x 4" Pine/Spruce/Fir Light Framing, Trim And Furring	3.67	1.46
06 11 16 00-0220	LF		2" x 6" Pine/Spruce/Fir Light Framing, Trim And Furring	4.34	1.61
06 11 16 00-0221	LF		2" x 8" Pine/Spruce/Fir Light Framing, Trim And Furring	5.13	1.77
06 11 16 00-0222	LF		2" x 10" Pine/Spruce/Fir Light Framing, Trim And Furring	6.11	1.95
06 11 16 00-0223			Cedar Light Framing, Trim And Furring <small>(06 11 16 00-0210)</small>		
			Note: S4S board, select grade 1		
06 11 16 00-0224	LF		1" x 1" Cedar Light Framing, Trim And Furring	2.25	1.00
06 11 16 00-0225	LF		1" x 2" Cedar Light Framing, Trim And Furring	2.68	1.10
06 11 16 00-0226	LF		1" x 4" Cedar Light Framing, Trim And Furring	3.63	1.21
06 11 16 00-0227	LF		1" x 6" Cedar Light Framing, Trim And Furring	4.47	1.33
06 11 16 00-0228	LF		1" x 8" Cedar Light Framing, Trim And Furring	6.83	1.46
06 11 16 00-0229	LF		1" x 10" Cedar Light Framing, Trim And Furring	8.10	1.61
06 11 16 00-0230	LF		2" x 2" Cedar Light Framing, Trim And Furring	3.73	1.33
06 11 16 00-0231	LF		2" x 4" Cedar Light Framing, Trim And Furring	4.36	1.46
06 11 16 00-0232			Oak Light Framing, Trim And Furring <small>(06 11 16 00-0210)</small>		
			Note: S4S board, select grade 1		
06 11 16 00-0233	LF		1" x 1" Oak Light Framing, Trim And Furring	2.26	1.00
06 11 16 00-0234	LF		1" x 2" Oak Light Framing, Trim And Furring	2.70	1.10
06 11 16 00-0235	LF		1" x 4" Oak Light Framing, Trim And Furring	3.45	1.21
06 11 16 00-0236	LF		1" x 6" Oak Light Framing, Trim And Furring	4.20	1.33
06 11 16 00-0237	LF		1" x 8" Oak Light Framing, Trim And Furring	4.99	1.46
06 11 16 00-0238	LF		1" x 10" Oak Light Framing, Trim And Furring	5.79	1.61
06 11 16 00-0239	LF		2" x 2" Oak Light Framing, Trim And Furring	3.69	1.33
06 11 16 00-0240	LF		2" x 4" Oak Light Framing, Trim And Furring	4.99	1.46
06 11 16 00-0241			Redwood Light Framing, Trim And Furring <small>(06 11 16 00-0210)</small>		
			Note: S4S board, select grade 1		
06 11 16 00-0242	LF		1" x 1" Redwood Light Framing, Trim And Furring.....	2.18	1.00
06 11 16 00-0243	LF		1" x 2" Redwood Light Framing, Trim And Furring.....	2.57	1.10
06 11 16 00-0244	LF		1" x 4" Redwood Light Framing, Trim And Furring.....	3.20	1.21
06 11 16 00-0245	LF		1" x 6" Redwood Light Framing, Trim And Furring.....	3.90	1.33
06 11 16 00-0246	LF		1" x 8" Redwood Light Framing, Trim And Furring.....	4.67	1.46
06 11 16 00-0247	LF		1" x 10" Redwood Light Framing, Trim And Furring.....	5.50	1.61
06 11 16 00-0248	LF		2" x 2" Redwood Light Framing, Trim And Furring.....	3.92	1.33
06 11 16 00-0249	LF		2" x 4" Redwood Light Framing, Trim And Furring.....	4.70	1.46
06 11 16 00-0250			Poplar Light Framing, Trim And Furring <small>(06 11 16 00-0210)</small>		
			Note: S4S board, select grade 1		
06 11 16 00-0251	LF		1" x 1" Poplar Light Framing, Trim And Furring	2.62	1.00
06 11 16 00-0252	LF		1" x 2" Poplar Light Framing, Trim And Furring	3.24	1.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0253 LF 1" x 4" Poplar Light Framing, Trim And Furring	4.16	1.21
06 11 16 00-0254 LF 1" x 6" Poplar Light Framing, Trim And Furring	5.38	1.33
06 11 16 00-0255 LF 1" x 8" Poplar Light Framing, Trim And Furring	6.29	1.46
06 11 16 00-0256 LF 1" x 10" Poplar Light Framing, Trim And Furring	8.42	1.61
06 11 16 00-0257 LF 1" x 12" Poplar Light Framing, Trim And Furring	9.16	1.61
06 11 16 00-0258 LF 2" x 2" Poplar Light Framing, Trim And Furring	7.23	1.33
06 11 16 00-0259 LF 2" x 4" Poplar Light Framing, Trim And Furring	8.12	1.46
06 11 16 00-0260 LF 2" x 6" Poplar Light Framing, Trim And Furring	10.99	1.61
06 11 16 00-0261 Maple Light Framing, Trim And Furring (06 11 16 00-0210) Note: S4S board, select grade 1		
06 11 16 00-0262 LF 1" x 4" Maple Light Framing, Trim And Furring	5.32	1.21
06 11 16 00-0263 LF 1" x 6" Maple Light Framing, Trim And Furring	7.17	1.33
06 11 16 00-0264 LF 1" x 8" Maple Light Framing, Trim And Furring	9.07	1.46
06 15 Wood Decking (06 10)		
06 15 13 Wood Floor Decking (06 13)		
06 15 13 00-0001 Wood Deck Systems (06 15 13) Note: Includes the deck, joists, girders, railing posts 8' on-center, pickets and railing. Excludes ground posts.		
06 15 13 00-0002 Pressure Treated Wood Deck System (06 15 13 00-0001)		
06 15 13 00-0003 2" x 8" Joists At 16" On Center, Pressure Treated Wood Deck System (06 15 13 00-0002)		
06 15 13 00-0004 SF 5/4" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	41.51	7.53
06 15 13 00-0005 SF 5/4" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	40.38	7.17
06 15 13 00-0006 SF 2" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	43.19	7.73
06 15 13 00-0007 SF 2" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	42.11	7.35
06 15 13 00-0008 2" x 10" Joists At 16" On Center, Pressure Treated Wood Deck System (06 15 13 00-0002)		
06 15 13 00-0009 SF 5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	43.00	7.73
06 15 13 00-0010 SF 5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	41.84	7.34
06 15 13 00-0011 SF 2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	44.71	7.92
06 15 13 00-0012 SF 2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center	43.61	7.52
06 15 13 00-0013 2" x 10" Joists At 24" On Center, Pressure Treated Wood Deck System (06 15 13 00-0002)		
06 15 13 00-0014 SF 5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	41.51	7.53
06 15 13 00-0015 SF 5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	40.38	7.17
06 15 13 00-0016 SF 2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	43.19	7.73
06 15 13 00-0017 SF 2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	42.11	7.35
06 15 13 00-0018 Redwood With Pressure Treated Joists, Wood Deck System (06 15 13 00-0001)		
06 15 13 00-0019 2" x 8" Joists At 16" On Center, Redwood With Pressure Treated Joists, Wood Deck System (06 15 13 00-0018)		
06 15 13 00-0020 SF 5/4" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	45.10	7.53
06 15 13 00-0021 SF 5/4" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	44.14	7.40
06 15 13 00-0022 SF 2" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	47.70	7.73
06 15 13 00-0023 SF 2" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	46.35	7.35
06 15 13 00-0024 2" x 10" Joists At 16" On Center, Redwood With Pressure Treated Joists, Wood Deck System (06 15 13 00-0018)		
06 15 13 00-0025 SF 5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	48.64	7.73
06 15 13 00-0026 SF 5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	47.65	7.34
06 15 13 00-0027 SF 2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	51.46	7.92
06 15 13 00-0028 SF 2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	50.13	7.52
06 15 13 00-0029 2" x 10" Joists At 24" On Center, Redwood With Pressure Treated Joists, Wood Deck System (06 15 13 00-0018)		
06 15 13 00-0030 SF 5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	46.55	7.53
06 15 13 00-0031 SF 5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	45.59	7.17
06 15 13 00-0032 SF 2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	49.22	7.73
06 15 13 00-0033 SF 2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	49.03	7.35
06 15 13 00-0034 Wood Ramp Systems (06 15 13) Note: Includes the decking, joists, girders, railing posts at corners and along ramp, pickets and railing. Excludes ground posts.		
06 15 13 00-0035 Pressure Treated Wood Ramp System (06 15 13 00-0034)		
06 15 13 00-0036 2" x 6" Joists, Pressure Treated Wood Ramp System (06 15 13 00-0035)		

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 15 Wood Decking**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0037 SF 5/4" x 4" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	47.69	7.35
06 15 13 00-0038 SF 5/4" x 6" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	46.21	6.98
06 15 13 00-0039 SF 2" x 4" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	49.49	7.53
06 15 13 00-0040 SF 2" x 6" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	48.04	7.17
06 15 13 00-0041 2" x 8" Joists, Pressure Treated Wood Ramp System <small>(06 15 13 00-0035)</small>		
06 15 13 00-0042 SF 5/4" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	49.28	7.53
06 15 13 00-0043 SF 5/4" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	47.78	7.17
06 15 13 00-0044 SF 2" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	51.18	7.73
06 15 13 00-0045 SF 2" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	49.70	7.35
06 15 13 00-0046 2" x 10" Joists, Pressure Treated Wood Ramp System <small>(06 15 13 00-0035)</small>		
06 15 13 00-0047 SF 5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	50.96	7.72
06 15 13 00-0048 SF 5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	49.42	7.34
06 15 13 00-0049 SF 2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	52.89	7.92
06 15 13 00-0050 SF 2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	51.38	7.52
06 15 13 00-0051 Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0034)</small>		
06 15 13 00-0052 2" x 6" Joists, Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0051)</small>		
06 15 13 00-0053 SF 5/4" x 4" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	51.07	7.35
06 15 13 00-0054 SF 5/4" x 6" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	49.75	6.98
06 15 13 00-0055 SF 2" x 4" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	53.73	7.53
06 15 13 00-0056 SF 2" x 6" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	52.03	7.17
06 15 13 00-0057 2" x 8" Joists, Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0051)</small>		
06 15 13 00-0058 SF 5/4" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	52.87	7.53
06 15 13 00-0059 SF 5/4" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	51.54	7.17
06 15 13 00-0060 SF 2" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	55.69	7.73
06 15 13 00-0061 SF 2" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	53.94	7.35
06 15 13 00-0062 2" x 10" Joists, Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0051)</small>		
06 15 13 00-0063 SF 5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	56.62	7.72
06 15 13 00-0064 SF 5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	55.23	7.34
06 15 13 00-0065 SF 2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	59.65	7.92
06 15 13 00-0066 SF 2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	58.64	7.52
06 15 13 00-0067 Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0034)</small>		
06 15 13 00-0068 2" x 6" Joists, Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0067)</small>		
06 15 13 00-0069 SF 5/4" x 4" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	48.89	7.35
06 15 13 00-0070 SF 5/4" x 6" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	47.46	6.98
06 15 13 00-0071 SF 2" x 4" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	50.79	7.53
06 15 13 00-0072 SF 2" x 6" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	49.40	7.17
06 15 13 00-0073 2" x 8" Joists, Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0067)</small>		
06 15 13 00-0074 SF 5/4" x 4" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	50.55	7.53
06 15 13 00-0075 SF 5/4" x 6" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	49.11	7.17
06 15 13 00-0076 SF 2" x 4" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	52.56	7.73
06 15 13 00-0077 SF 2" x 6" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	51.14	7.35
06 15 13 00-0078 2" x 10" Joists, Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0067)</small>		
06 15 13 00-0079 SF 5/4" x 4" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	52.34	7.72
06 15 13 00-0080 SF 5/4" x 6" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	50.84	7.34
06 15 13 00-0081 SF 2" x 4" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	54.37	7.92
06 15 13 00-0082 SF 2" x 6" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	52.92	7.52
06 15 13 00-0083 Wood Stair Systems <small>(06 15 13)</small>		
Note: Includes the decking, joists, girders, railing posts at corners and along stairs, pickets and railing. Excludes ground posts.		
06 15 13 00-0084 Pressure Treated Wood Stair System <small>(06 15 13 00-0083)</small>		
06 15 13 00-0085 2" x 10" Joists, Pressure Treated Wood Stair System <small>(06 15 13 00-0084)</small>		
06 15 13 00-0086 RSR 3' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	133.25	18.09
06 15 13 00-0087 RSR 3' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	130.90	17.19
06 15 13 00-0088 RSR 3' Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	137.55	18.56
06 15 13 00-0089 RSR 3' Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	134.40	17.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0090 RSR 3'-6" Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	139.91	19.00
06 15 13 00-0091 RSR 3'-6" Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	137.45	18.05
06 15 13 00-0092 RSR 3'-6" Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	144.44	19.48
06 15 13 00-0093 RSR 3'-6" Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	141.13	18.52
06 15 13 00-0094 RSR 4' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	146.70	19.94
06 15 13 00-0095 RSR 4' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	144.10	18.95
06 15 13 00-0096 RSR 4' Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	151.44	20.47
06 15 13 00-0097 RSR 4' Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	147.96	19.43
06 15 13 00-0098 RSR 5' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	156.23	20.95
06 15 13 00-0099 RSR 5' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	153.62	19.90
06 15 13 00-0100 RSR 5' Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	161.30	21.48
06 15 13 00-0101 RSR 5' Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	157.74	20.41
06 15 13 00-0102 2" x 12" Joists, Pressure Treated Wood Stair System <small>(06 15 13 00-0084)</small>		
06 15 13 00-0103 RSR 3' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	135.97	18.55
06 15 13 00-0104 RSR 3' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	132.88	17.62
06 15 13 00-0105 RSR 3' Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	140.55	19.02
06 15 13 00-0106 RSR 3' Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	137.41	18.07
06 15 13 00-0107 RSR 3'-6" Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	142.77	19.47
06 15 13 00-0108 RSR 3'-6" Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	139.53	18.51
06 15 13 00-0109 RSR 3'-6" Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	147.58	19.96
06 15 13 00-0110 RSR 3'-6" Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	144.29	18.97
06 15 13 00-0111 RSR 4' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	149.72	20.45
06 15 13 00-0112 RSR 4' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	146.28	19.42
06 15 13 00-0113 RSR 4' Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	154.75	20.97
06 15 13 00-0114 RSR 4' Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	151.28	19.93
06 15 13 00-0115 RSR 5' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	159.41	21.47
06 15 13 00-0116 RSR 5' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	155.91	20.40
06 15 13 00-0117 RSR 5' Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	164.80	22.02
06 15 13 00-0118 RSR 5' Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	161.24	20.92
06 15 13 00-0119 Redwood With Pressure Treated Joists, Wood Stair System <small>(06 15 13 00-0083)</small>		
06 15 13 00-0120 2" x 10" Joists, Redwood With Pressure Treated Joists, Wood Stair System <small>(06 15 13 00-0119)</small>		
06 15 13 00-0121 RSR 3' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	153.23	18.09
06 15 13 00-0122 RSR 3' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	150.68	17.19
06 15 13 00-0123 RSR 3' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	158.76	18.56
06 15 13 00-0124 RSR 3' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	156.25	17.63
06 15 13 00-0125 RSR 3'-6" Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	160.88	19.00
06 15 13 00-0126 RSR 3'-6" Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	158.22	18.05
06 15 13 00-0127 RSR 3'-6" Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	166.72	19.48
06 15 13 00-0128 RSR 3'-6" Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	164.06	18.52
06 15 13 00-0129 RSR 4' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	168.62	19.94
06 15 13 00-0130 RSR 4' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	165.81	18.95
06 15 13 00-0131 RSR 4' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	174.72	20.47
06 15 13 00-0132 RSR 4' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	171.93	19.43
06 15 13 00-0133 RSR 5' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	180.34	20.95
06 15 13 00-0134 RSR 5' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	177.51	19.90
06 15 13 00-0135 RSR 5' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	186.91	21.48
06 15 13 00-0136 RSR 5' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	184.10	20.41
06 15 13 00-0137 2" x 12" Joists, Redwood With Pressure Treated Joists, Wood Stair System <small>(06 15 13 00-0119)</small>		
06 15 13 00-0138 RSR 3' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	150.05	18.55
06 15 13 00-0139 RSR 3' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	147.46	17.62
06 15 13 00-0140 RSR 3' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	155.21	19.02
06 15 13 00-0141 RSR 3' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	152.76	18.07
06 15 13 00-0142 RSR 3'-6" Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	157.56	19.47
06 15 13 00-0143 RSR 3'-6" Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	154.84	18.51
06 15 13 00-0144 RSR 3'-6" Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	162.98	19.96
06 15 13 00-0145 RSR 3'-6" Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	160.41	18.97
06 15 13 00-0146 RSR 4' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	165.17	20.45
06 15 13 00-0147 RSR 4' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	162.28	19.42
06 15 13 00-0148 RSR 4' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	170.84	20.97
06 15 13 00-0149 RSR 4' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	168.12	19.93
06 15 13 00-0150 RSR 5' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	176.41	21.47
06 15 13 00-0151 RSR 5' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	173.51	20.40
06 15 13 00-0152 RSR 5' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	182.50	22.02
06 15 13 00-0153 RSR 5' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	179.77	20.92
06 15 13 00-0154 Wood Deck And Ramp Systems Repairs <small>(06 15 13)</small>		
Note: Includes removal of material and screws. Excludes anchors and bolts.		
06 15 13 00-0155 Deck Joist Or Girt <small>(06 15 13 00-0154)</small>		
See CSI section 06 11 16 00-0012 for treated wood joist replacement.		
06 15 13 00-0156 Deck Boards <small>(06 15 13 00-0154)</small>		
06 15 13 00-0157 LF 5/4" x 4" Round Edge Pressure Treated Deck Boards	2.24	0.94

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 15 Wood Decking**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0158 LF 5/4" x 6" Round Edge Pressure Treated Deck Boards.....	2.48	1.11
06 15 13 00-0159 LF 2" x 4" Round Edge Pressure Treated Deck Boards.....	2.38	1.11
06 15 13 00-0160 LF 2" x 6" Round Edge Pressure Treated Deck Boards.....	3.11	1.28
06 15 13 00-0161 LF 2" x 8" Round Edge Pressure Treated Deck Boards.....	3.95	1.54
06 15 13 00-0162 LF 2" x 10" Round Edge Pressure Treated Deck Boards.....	4.85	1.88
06 15 13 00-0163 LF 2" x 12" Round Edge Pressure Treated Deck Boards.....	5.98	2.22
06 15 13 00-0164 LF 2" x 4" Round Edge Cedar Deck Boards.....	3.09	1.11
06 15 13 00-0165 LF 2" x 6" Round Edge Cedar Deck Boards.....	4.05	1.28
06 15 13 00-0166 LF 2" x 4" Round Edge Redwood Deck Boards.....	3.42	1.11
06 15 13 00-0167 LF 2" x 6" Round Edge Redwood Deck Boards.....	4.55	1.28
06 15 13 00-0168 Deck Posts <small>(06 15 13 00-0154)</small> See CSI section 06 11 16 00-0105 for treated wood post replacement.		
06 15 13 00-0169 Deck Railing And Pickets <small>(06 15 13 00-0154)</small>		
06 15 13 00-0170 LF 2" x 4" Pressure Treated Deck Railing.....	2.38	1.11
06 15 13 00-0171 LF 2" x 2" Pressure Treated Deck Railing Picket.....	1.87	0.85
06 15 13 00-0172 LF 2" x 4" Cedar Deck Railing.....	3.09	1.11
06 15 13 00-0173 LF 2" x 2" Cedar Deck Railing Picket.....	2.33	0.85
06 15 13 00-0174 LF 2" x 4" Redwood Deck Railing.....	3.42	1.11
06 15 13 00-0175 LF 2" x 2" Redwood Deck Railing Picket.....	2.58	0.85
06 16 Sheathing <small>(06 10)</small>		
06 16 23 Subflooring <small>(06 16)</small>		
06 16 23 00-0001 Board Type Subflooring <small>(06 16 23)</small>		
06 16 23 00-0002 SF 1" x 8" Regular Surface Board Type Subfloor.....	3.51	0.97
Note: 4 Sides Laid In A Regular Pattern.		
For Water Resistant Coating Or Treatment, Add	0.08	
For Foil Backing, Add	0.13	
For Tongue And Groove, Add	0.09	
06 16 23 00-0003 SF 1" x 8" Diagonal Surface Board Type Subfloor.....	3.92	1.22
Note: 4 Sides Laid In A Diagonal Pattern.		
For Water Resistant Coating Or Treatment, Add	0.08	
For Foil Backing, Add	0.13	
For Tongue And Groove, Add	0.09	
06 16 23 00-0004 SF 1" x 10" Regular Surface Board Type Subfloor.....	3.37	0.85
Note: 4 sides laid in a regular pattern.		
For Water Resistant Coating Or Treatment, Add	0.08	
For Foil Backing, Add	0.14	
For Tongue And Groove, Add	0.10	
06 16 23 00-0005 SF 1" x 10" Diagonal Surface Board Type Subfloor.....	3.65	0.97
Note: 4 sides laid in a diagonal pattern.		
For Water Resistant Coating Or Treatment, Add	0.08	
For Foil Backing, Add	0.14	
For Tongue And Groove, Add	0.10	
06 16 33 Wood Board Sheathing <small>(06 16)</small>		
06 16 33 00-0001 Plywood <small>(06 16 33)</small>		
06 16 33 00-0002 Roof Decking <small>(06 16 33 00-0001)</small>		
06 16 33 00-0003 SF 3/8" Thick CDX Plywood Roof Decking.....	2.33	0.61
Note: Applied to wood rafters.		
For Shear Wall Construction, Add	0.29	
For Exterior CC Grade Plywood, Add	0.13	
For Application To Metal Studs, Joists, Or Rafters, Add	0.29	
For ACQ Preservative Treatment, Add	0.43	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.16	
For Fire Retardant Treatment, Add	0.70	
For >1,696 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.08	
For >6,400 To 12,800, Deduct	-0.13	
For >12,800, Deduct	-0.18	
06 16 33 00-0004 SF 1/2" Thick CDX Plywood Roof Decking.....	2.65	0.73
Note: Applied to wood rafters.		
For Shear Wall Construction, Add	0.31	
For Exterior CC Grade Plywood, Add	0.16	
For Application To Metal Studs, Joists, Or Rafters, Add	0.31	
For ACQ Preservative Treatment, Add	0.52	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.36	
For Fire Retardant Treatment, Add	0.85	
For >1,696 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.10	
For >6,400 To 12,800, Deduct	-0.16	
For >12,800, Deduct	-0.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0005 SF 5/8" Thick CDX Plywood Roof Decking .....2.89	2.89	0.73
Note: Applied to wood rafters.		
<i>For Shear Wall Construction, Add</i>	0.34	
<i>For Exterior CC Grade Plywood, Add</i>	0.18	
<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.34	
<i>For ACQ Preservative Treatment, Add</i>	0.58	
<i>For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add</i>	2.52	
<i>For Fire Retardant Treatment, Add</i>	0.96	
<i>For >1,696 To 3,200, Deduct</i>	-0.07	
<i>For >3,200 To 6,400, Deduct</i>	-0.11	
<i>For >6,400 To 12,800, Deduct</i>	-0.18	
<i>For >12,800, Deduct</i>	-0.23	
<i>For Tongue And Groove, Add</i>	0.08	
06 16 33 00-0006 SF 3/4" Thick CDX Plywood Roof Decking .....3.22	3.22	0.85
Note: Applied to wood rafters.		
<i>For Shear Wall Construction, Add</i>	0.36	
<i>For Exterior CC Grade Plywood, Add</i>	0.21	
<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.36	
<i>For ACQ Preservative Treatment, Add</i>	0.67	
<i>For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add</i>	2.73	
<i>For Fire Retardant Treatment, Add</i>	1.11	
<i>For >1,696 To 3,200, Deduct</i>	-0.08	
<i>For >3,200 To 6,400, Deduct</i>	-0.13	
<i>For >6,400 To 12,800, Deduct</i>	-0.20	
<i>For >12,800, Deduct</i>	-0.26	
<i>For Tongue And Groove, Add</i>	0.10	
06 16 33 00-0007 SF 1" Thick CDX Plywood Roof Decking .....3.89	3.89	0.97
Note: Applied to wood rafters.		
<i>For Shear Wall Construction, Add</i>	0.40	
<i>For Exterior CC Grade Plywood, Add</i>	0.29	
<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.40	
<i>For ACQ Preservative Treatment, Add</i>	0.91	
<i>For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add</i>	2.99	
<i>For Fire Retardant Treatment, Add</i>	1.50	
<i>For >1,696 To 3,200, Deduct</i>	-0.11	
<i>For >3,200 To 6,400, Deduct</i>	-0.17	
<i>For >6,400 To 12,800, Deduct</i>	-0.26	
<i>For >12,800, Deduct</i>	-0.33	
<i>For Tongue And Groove, Add</i>	0.13	
06 16 33 00-0008 Wall Sheathing (06 16 33 00-0001)		
06 16 33 00-0009 SF 1/4" Interior BC Plywood Wall Sheathing .....2.70	2.70	0.85
Note: Applied to wall studs.		
<i>For Shear Wall Construction, Add</i>	0.36	
<i>For Exterior CC Grade Plywood, Add</i>	0.13	
<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.36	
<i>For Ceiling Installation, Add</i>	0.18	
<i>For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add</i>	2.73	
<i>For Fire Retardant Treatment, Add</i>	0.70	
<i>For >1,696 To 3,200, Deduct</i>	-0.05	
<i>For >3,200 To 6,400, Deduct</i>	-0.08	
<i>For >6,400 To 12,800, Deduct</i>	-0.14	
<i>For >12,800, Deduct</i>	-0.20	
06 16 33 00-0010 SF 5/16" Interior BC Plywood Wall Sheathing .....2.74	2.74	0.85
Note: Applied to wall studs.		
<i>For Shear Wall Construction, Add</i>	0.36	
<i>For Exterior CC Grade Plywood, Add</i>	0.14	
<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.36	
<i>For Ceiling Installation, Add</i>	0.18	
<i>For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add</i>	2.73	
<i>For Fire Retardant Treatment, Add</i>	0.73	
<i>For >1,696 To 3,200, Deduct</i>	-0.06	
<i>For >3,200 To 6,400, Deduct</i>	-0.08	
<i>For >6,400 To 12,800, Deduct</i>	-0.15	
<i>For >12,800, Deduct</i>	-0.20	
06 16 33 00-0011 SF 3/8" Interior BC Plywood Wall Sheathing .....2.83	2.83	0.97
Note: Applied to wall studs.		
<i>For Shear Wall Construction, Add</i>	0.36	
<i>For Exterior CC Grade Plywood, Add</i>	0.15	
<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.36	
<i>For Ceiling Installation, Add</i>	0.18	
<i>For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add</i>	2.73	
<i>For Fire Retardant Treatment, Add</i>	0.80	
<i>For >1,696 To 3,200, Deduct</i>	-0.06	
<i>For >3,200 To 6,400, Deduct</i>	-0.09	
<i>For >6,400 To 12,800, Deduct</i>	-0.16	
<i>For >12,800, Deduct</i>	-0.21	

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 16 Sheathing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0012	SF		1/2" Interior BC Plywood Wall Sheathing.....	3.22	0.97
			Note: Applied to wall studs.		
			For Shear Wall Construction, Add	0.39	
			For Exterior CC Grade Plywood, Add	0.19	
			For Application To Metal Studs, Joists, Or Rafters, Add	0.39	
			For Ceiling Installation, Add	0.20	
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.93	
			For Fire Retardant Treatment, Add	1.00	
			For >1,696 To 3,200, Deduct	-0.08	
			For >3,200 To 6,400, Deduct	-0.11	
			For >6,400 To 12,800, Deduct	-0.19	
			For >12,800, Deduct	-0.25	
06 16 33 00-0013	SF		5/8" Interior BC Plywood Wall Sheathing.....	3.47	1.10
			Note: Applied to wall studs.		
			For Shear Wall Construction, Add	0.42	
			For Exterior CC Grade Plywood, Add	0.21	
			For Application To Metal Studs, Joists, Or Rafters, Add	0.42	
			For Ceiling Installation, Add	0.21	
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	3.14	
			For Fire Retardant Treatment, Add	1.09	
			For >1,696 To 3,200, Deduct	-0.08	
			For >3,200 To 6,400, Deduct	-0.12	
			For >6,400 To 12,800, Deduct	-0.20	
			For >12,800, Deduct	-0.27	
06 16 33 00-0014	SF		3/4" Interior BC Plywood Wall Sheathing.....	3.83	1.22
			Note: Applied to wall studs.		
			For Shear Wall Construction, Add	0.45	
			For Exterior CC Grade Plywood, Add	0.24	
			For Application To Metal Studs, Joists, Or Rafters, Add	0.45	
			For Ceiling Installation, Add	0.23	
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	3.38	
			For Fire Retardant Treatment, Add	1.25	
			For >1,696 To 3,200, Deduct	-0.09	
			For >3,200 To 6,400, Deduct	-0.14	
			For >6,400 To 12,800, Deduct	-0.23	
			For >12,800, Deduct	-0.30	
06 16 33 00-0015			Floor Decking <small>(06 16 33 00-0001)</small>		
			Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0016	SF		5/16" CD Grade Plywood Floor Decking.....	1.97	0.73
			Note: Applied to floor or joists.		
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.06	
			For Fire Retardant Treatment, Add	0.47	
			For >1,696 To 3,200, Deduct	-0.04	
			For >3,200 To 6,400, Deduct	-0.05	
			For >6,400 To 12,800, Deduct	-0.10	
			For >12,800, Deduct	-0.14	
			For ACQ Preservative Treatment, Add	0.29	
			For Fir Plywood, Add	0.11	
			For BC Grade Plywood, Add	0.09	
			For Exterior Glue, Add	0.06	
			For Marine Grade, Add	0.47	
06 16 33 00-0017	SF		3/8" CD Grade Plywood Floor Decking.....	2.17	0.73
			Note: Applied to floor or joists.		
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.16	
			For Fire Retardant Treatment, Add	0.58	
			For >1,696 To 3,200, Deduct	-0.04	
			For >3,200 To 6,400, Deduct	-0.07	
			For >6,400 To 12,800, Deduct	-0.12	
			For >12,800, Deduct	-0.16	
			For ACQ Preservative Treatment, Add	0.35	
			For Fir Plywood, Add	0.14	
			For BC Grade Plywood, Add	0.11	
			For Exterior Glue, Add	0.07	
			For Marine Grade, Add	0.57	
06 16 33 00-0018	SF		1/2" CD Grade Plywood Floor Decking.....	2.49	0.73
			Note: Applied to floor or joists.		
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.28	
			For Fire Retardant Treatment, Add	0.77	
			For >1,696 To 3,200, Deduct	-0.06	
			For >3,200 To 6,400, Deduct	-0.09	
			For >6,400 To 12,800, Deduct	-0.14	
			For >12,800, Deduct	-0.19	
			For ACQ Preservative Treatment, Add	0.47	
			For Fir Plywood, Add	0.18	
			For BC Grade Plywood, Add	0.14	
			For Exterior Glue, Add	0.09	
			For Marine Grade, Add	0.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0019 SF 5/8" CD Grade Plywood Floor Decking.....	2.71	0.73
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.49	
For Fire Retardant Treatment, Add	0.83	
For >1,696 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.09	
For >6,400 To 12,800, Deduct	-0.16	
For >12,800, Deduct	-0.21	
For ACQ Preservative Treatment, Add	0.50	
For Fir Plywood, Add	0.19	
For BC Grade Plywood, Add	0.16	
For Exterior Glue, Add	0.10	
For Marine Grade, Add	0.82	
06 16 33 00-0020 SF 3/4" CD Grade Plywood Floor Decking.....	3.11	0.73
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.64	
For Fire Retardant Treatment, Add	1.07	
For >1,696 To 3,200, Deduct	-0.08	
For >3,200 To 6,400, Deduct	-0.12	
For >6,400 To 12,800, Deduct	-0.19	
For >12,800, Deduct	-0.25	
For ACQ Preservative Treatment, Add	0.65	
For Fir Plywood, Add	0.25	
For BC Grade Plywood, Add	0.20	
For Exterior Glue, Add	0.13	
For Marine Grade, Add	1.06	
06 16 33 00-0021 SF 1-1/8" CD Grade Plywood Floor Decking.....	4.64	1.10
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	3.15	
For Fire Retardant Treatment, Add	2.01	
For >1,696 To 3,200, Deduct	-0.15	
For >3,200 To 6,400, Deduct	-0.23	
For >6,400 To 12,800, Deduct	-0.33	
For >12,800, Deduct	-0.41	
For ACQ Preservative Treatment, Add	1.22	
For Fir Plywood, Add	0.47	
For BC Grade Plywood, Add	0.38	
For Exterior Glue, Add	0.24	
For Marine Grade, Add	1.99	
06 16 33 00-0022 SF 1/2" AC Fir Plywood Floor Decking.....	3.07	0.73
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.28	
For Fire Retardant Treatment, Add	1.22	
For >1,696 To 3,200, Deduct	-0.09	
For >3,200 To 6,400, Deduct	-0.14	
For >6,400 To 12,800, Deduct	-0.21	
For >12,800, Deduct	-0.26	
For ACQ Preservative Treatment, Add	0.74	
For Exterior Glue, Add	0.14	
For Marine Grade, Add	1.21	
For Tongue And Groove, Add	0.11	
06 16 33 00-0023 SF 5/8" AC Fir Plywood Floor Decking.....	3.30	0.73
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.49	
For Fire Retardant Treatment, Add	1.30	
For >1,696 To 3,200, Deduct	-0.10	
For >3,200 To 6,400, Deduct	-0.15	
For >6,400 To 12,800, Deduct	-0.22	
For >12,800, Deduct	-0.28	
For ACQ Preservative Treatment, Add	0.79	
For Exterior Glue, Add	0.15	
For Marine Grade, Add	1.28	
For Tongue And Groove, Add	0.11	
06 16 33 00-0024 SF 3/4" AC Fir Plywood Floor Decking.....	3.53	0.73
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.64	
For Fire Retardant Treatment, Add	1.40	
For >1,696 To 3,200, Deduct	-0.11	
For >3,200 To 6,400, Deduct	-0.16	
For >6,400 To 12,800, Deduct	-0.24	
For >12,800, Deduct	-0.30	
For ACQ Preservative Treatment, Add	0.85	
For Exterior Glue, Add	0.16	
For Marine Grade, Add	1.39	
For Tongue And Groove, Add	0.12	
06 16 33 00-0025 Underlayment Grade <small>(06 16 33 00-0001)</small>		
Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0026 SF 1/4" Thick Plywood Underlayment BC Grade	2.12	0.73
For Fire Retardant Treatment, Add	0.56	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.06	
For >6,400 To 12,800, Deduct	-0.10	
For >12,800, Deduct	-0.16	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0027 SF 3/8" Thick Plywood Underlayment BC Grade	2.26	0.73
For Fire Retardant Treatment, Add	0.62	
For >1,696 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.07	
For >6,400 To 12,800, Deduct	-0.11	
For >12,800, Deduct	-0.17	
06 16 33 00-0028 SF 1/2" Thick Plywood Underlayment BC Grade	2.35	0.85
For Fire Retardant Treatment, Add	0.66	
For >1,696 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.08	
For >6,400 To 12,800, Deduct	-0.11	
For >12,800, Deduct	-0.18	
06 16 33 00-0029 SF 5/8" Thick Plywood Underlayment BC Grade	2.68	0.85
For Fire Retardant Treatment, Add	0.79	
For >1,696 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.09	
For >6,400 To 12,800, Deduct	-0.13	
For >12,800, Deduct	-0.20	
For Tongue And Groove, Add	0.07	
06 16 33 00-0030 SF 3/4" Thick Plywood Underlayment BC Grade	2.89	0.85
For Fire Retardant Treatment, Add	0.96	
For >1,696 To 3,200, Deduct	-0.07	
For >3,200 To 6,400, Deduct	-0.11	
For >6,400 To 12,800, Deduct	-0.15	
For >12,800, Deduct	-0.23	
For Tongue And Groove, Add	0.08	
06 16 33 00-0031 SF 1-1/8" Thick Plywood Underlayment BC Grade	3.74	0.97
For Fire Retardant Treatment, Add	1.46	
For >1,696 To 3,200, Deduct	-0.11	
For >3,200 To 6,400, Deduct	-0.17	
For >6,400 To 12,800, Deduct	-0.21	
For >12,800, Deduct	-0.32	
For Tongue And Groove, Add	0.13	
06 16 33 00-0032 SF 3/8" Thick CDX Plywood Underlayment Grade.....	2.43	0.73
For Fire Retardant Treatment, Add	0.75	
For >1,696 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.09	
For >6,400 To 12,800, Deduct	-0.12	
For >12,800, Deduct	-0.19	
06 16 33 00-0033 SF 5/8" Thick CDX Plywood Underlayment Grade.....	3.10	0.85
For Fire Retardant Treatment, Add	1.14	
For >1,696 To 3,200, Deduct	-0.09	
For >3,200 To 6,400, Deduct	-0.13	
For >6,400 To 12,800, Deduct	-0.17	
For >12,800, Deduct	-0.26	
06 16 33 00-0034 Oriented Strand Board <small>(06 16 33)</small>		
06 16 33 00-0035 On Roof <small>(06 16 33 00-0034)</small>		
06 16 33 00-0036 SF 3/8" Thick Structural Oriented Strand Board (OSB) On Roof.....	1.92	0.73
For >1,408 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.04	
For >6,400 To 12,800, Deduct	-0.09	
For >12,800, Deduct	-0.13	
For Fire Retardant Treatment, Add	0.38	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.16	
06 16 33 00-0037 SF 1/2" Thick Structural Oriented Strand Board (OSB) On Roof.....	2.13	0.73
For >1,408 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.10	
For >12,800, Deduct	-0.15	
For Fire Retardant Treatment, Add	0.44	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.36	
06 16 33 00-0038 SF 5/8" Thick Structural Oriented Strand Board (OSB) On Roof.....	2.49	0.85
For >1,408 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.07	
For >6,400 To 12,800, Deduct	-0.13	
For >12,800, Deduct	-0.18	
For Fire Retardant Treatment, Add	0.64	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.52	
06 16 33 00-0039 SF 3/4" Thick Structural Oriented Strand Board (OSB) On Roof.....	2.90	0.85
For >1,408 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.10	
For >6,400 To 12,800, Deduct	-0.16	
For >12,800, Deduct	-0.22	
For Fire Retardant Treatment, Add	0.85	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.73	
06 16 33 00-0040 On Walls <small>(06 16 33 00-0034)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0041 SF 3/8" Thick Structural Oriented Strand Board (OSB) On Walls 2.30	2.30	0.85
<i>For >1,408 To 3,200, Deduct</i>	-0.03	
<i>For >3,200 To 6,400, Deduct</i>	-0.04	
<i>For >6,400 To 12,800, Deduct</i>	-0.10	
<i>For >12,800, Deduct</i>	-0.15	
<i>For Fire Retardant Treatment, Add</i>	0.38	
<i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	2.73	
06 16 33 00-0042 SF 1/2" Thick Structural Oriented Strand Board (OSB) On Walls 2.51	2.51	0.97
<i>For >1,408 To 3,200, Deduct</i>	-0.03	
<i>For >3,200 To 6,400, Deduct</i>	-0.05	
<i>For >6,400 To 12,800, Deduct</i>	-0.11	
<i>For >12,800, Deduct</i>	-0.16	
<i>For Fire Retardant Treatment, Add</i>	0.44	
<i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	2.93	
06 16 33 00-0043 SF 5/8" Thick Structural Oriented Strand Board (OSB) On Walls 2.90	2.90	1.10
<i>For >1,408 To 3,200, Deduct</i>	-0.05	
<i>For >3,200 To 6,400, Deduct</i>	-0.07	
<i>For >6,400 To 12,800, Deduct</i>	-0.14	
<i>For >12,800, Deduct</i>	-0.20	
<i>For Fire Retardant Treatment, Add</i>	0.64	
<i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	3.14	
06 16 33 00-0044 SF 3/4" Thick Structural Oriented Strand Board (OSB) On Walls 3.33	3.33	1.10
<i>For >1,408 To 3,200, Deduct</i>	-0.06	
<i>For >3,200 To 6,400, Deduct</i>	-0.10	
<i>For >6,400 To 12,800, Deduct</i>	-0.18	
<i>For >12,800, Deduct</i>	-0.24	
<i>For Fire Retardant Treatment, Add</i>	0.85	
<i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	3.38	
06 16 33 00-0045 On Floors <small>(06 16 33 00-0034)</small>		
Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0046 SF 3/8" Thick Structural Oriented Strand Board (OSB) On Floors 1.95	1.95	0.73
<i>For >1,408 To 3,200, Deduct</i>	-0.03	
<i>For >3,200 To 6,400, Deduct</i>	-0.04	
<i>For >6,400 To 12,800, Deduct</i>	-0.09	
<i>For >12,800, Deduct</i>	-0.13	
<i>For Fire Retardant Treatment, Add</i>	0.38	
<i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	2.21	
06 16 33 00-0047 SF 1/2" Thick Structural Oriented Strand Board (OSB) On Floors 2.32	2.32	0.85
<i>For >1,408 To 3,200, Deduct</i>	-0.03	
<i>For >3,200 To 6,400, Deduct</i>	-0.05	
<i>For >6,400 To 12,800, Deduct</i>	-0.11	
<i>For >12,800, Deduct</i>	-0.16	
<i>For Fire Retardant Treatment, Add</i>	0.44	
<i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	2.64	
06 16 33 00-0048 SF 5/8" Thick Structural Oriented Strand Board (OSB) On Floors 2.73	2.73	0.97
<i>For >1,408 To 3,200, Deduct</i>	-0.05	
<i>For >3,200 To 6,400, Deduct</i>	-0.07	
<i>For >6,400 To 12,800, Deduct</i>	-0.14	
<i>For >12,800, Deduct</i>	-0.19	
<i>For Fire Retardant Treatment, Add</i>	0.64	
<i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	2.88	
06 16 33 00-0049 SF 3/4" Thick Structural Oriented Strand Board (OSB) On Floors 3.17	3.17	1.10
<i>For >1,408 To 3,200, Deduct</i>	-0.06	
<i>For >3,200 To 6,400, Deduct</i>	-0.10	
<i>For >6,400 To 12,800, Deduct</i>	-0.17	
<i>For >12,800, Deduct</i>	-0.23	
<i>For Fire Retardant Treatment, Add</i>	0.85	
<i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	3.14	
06 16 33 00-0050 Particle Board <small>(06 16 33)</small>		
06 16 33 00-0051 Particle Board Floor Decking <small>(06 16 33 00-0050)</small>		
Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0052 SF 3/8" Particle Board Floor Decking 2.08	2.08	0.61
Note: Applied to plywood subfloor.		
<i>For Fire Retardant Treatment Add</i>	0.51	
<i>For >1,536 To 3,200, Deduct</i>	-0.04	
<i>For >3,200 To 6,400, Deduct</i>	-0.06	
<i>For >6,400 To 12,800, Deduct</i>	-0.11	
<i>For >12,800, Deduct</i>	-0.15	
<i>For Tongue And Groove, Add</i>	0.04	
06 16 33 00-0053 SF 1/2" Particle Board Floor Decking 2.39	2.39	0.61
Note: Applied to plywood subfloor.		
<i>For Fire Retardant Treatment Add</i>	0.69	
<i>For >1,536 To 3,200, Deduct</i>	-0.05	
<i>For >3,200 To 6,400, Deduct</i>	-0.08	
<i>For >6,400 To 12,800, Deduct</i>	-0.13	
<i>For >12,800, Deduct</i>	-0.18	
<i>For Tongue And Groove, Add</i>	0.06	

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 16 Sheathing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0054	SF		5/8" Particle Board Floor Decking.....	2.69	0.73
			Note: Applied to plywood subfloor.		
			For Fire Retardant Treatment Add	0.86	
			For >1,536 To 3,200, Deduct	-0.07	
			For >3,200 To 6,400, Deduct	-0.10	
			For >6,400 To 12,800, Deduct	-0.16	
			For >12,800, Deduct	-0.21	
			For Tongue And Groove, Add	0.08	
06 16 33 00-0055	SF		3/4" Particle Board Floor Decking.....	2.99	0.73
			Note: Applied to plywood subfloor.		
			For Fire Retardant Treatment Add	1.01	
			For >1,536 To 3,200, Deduct	-0.08	
			For >3,200 To 6,400, Deduct	-0.12	
			For >6,400 To 12,800, Deduct	-0.18	
			For >12,800, Deduct	-0.24	
			For Tongue And Groove, Add	0.09	
06 16 43			Gypsum Sheathing <small>(06 16)</small>		
06 16 43 00-0001			Exterior Gypsum Sheathing <small>(06 16 43)</small>		
			Note: Includes moisture resistant core and fiberglass mats on both sides and long edges.		
06 16 43 00-0002	SF		1/2" Exterior Gypsum Sheathing (GP Dens-Glass Gold).....	2.98	0.97
			For Application To Metal Studs, Joists, Or Rafters, Add	0.39	
			For Ceiling Installation, Add	0.20	
			For >1,696 To 3,200, Deduct	-0.06	
			For >3,200 To 6,400, Deduct	-0.09	
			For >6,400 To 12,800, Deduct	-0.16	
			For >12,800, Deduct	-0.22	
			For Selective Replacement <400 (Includes Removal Of Damaged Gypsum And Fitting New Gypsum To Size), Add	2.93	
06 16 43 00-0003	SF		5/8" Exterior Gypsum Sheathing (GP Dens-Glass Gold).....	3.21	1.22
			For Application To Metal Studs, Joists, Or Rafters, Add	0.42	
			For Ceiling Installation, Add	0.21	
			For >1,696 To 3,200, Deduct	-0.07	
			For >3,200 To 6,400, Deduct	-0.10	
			For >6,400 To 12,800, Deduct	-0.18	
			For >12,800, Deduct	-0.24	
			For Selective Replacement <400 (Includes Removal Of Damaged Gypsum And Fitting New Gypsum To Size), Add	3.14	

END OF SECTION 06



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 Thermal And Moisture Protection

07 01 Operation and Maintenance of Thermal and Moisture Protection ⁽⁰⁷⁾

07 01 50 Maintenance of Membrane Roofing ^(07 01)

07 01 50 19 Preparation for Re-Roofing ^(07 01 50)

07 01 50 19-0001 Preparation For Re-Roofing ^(07 01 50 19)

07 01 50 19-0002	SQ	Removal Of Pea Gravel Ballast From Roof, Vacuum And Disposal	35.14
07 01 50 19-0003	SQ	Removal Of Gravel Ballast From Roof, Vacuum And Disposal	62.02

07 01 50 81 Roof Replacement ^(07 01 50)

07 01 50 81-0001 Roof Repair ^(07 01 50 81)

Note: Less than 100 SF areas. Excludes mobilization of crew for small quantity of roof work. See CSI section 07 05 13 00-0001 for mobilization of crew for small quantity of roof work.

07 01 50 81-0002	SF	Up To 10 SF Roof Repair, Built-Up Roofing	23.35
07 01 50 81-0003	SF	>10 To 25 SF Roof Repair, Built-Up Roofing	20.93
07 01 50 81-0004	SF	>25 To 50 SF Roof Repair, Built-Up Roofing	19.05
07 01 50 81-0005	SF	>50 To 100 SF Roof Repair, Built-Up Roofing	17.73
07 01 50 81-0006	SF	Up To 10 SF Roof Repair, Membrane Roofing	26.41
07 01 50 81-0007	SF	>10 To 25 SF Roof Repair, Membrane Roofing	23.99
07 01 50 81-0008	SF	>25 To 50 SF Roof Repair, Membrane Roofing	22.11
07 01 50 81-0009	SF	>50 To 100 SF Roof Repair, Membrane Roofing	20.79
07 01 50 81-0010	SF	Up To 10 SF Roof Repair, Shingle Roofing	20.30
07 01 50 81-0011	SF	>10 To 25 SF Roof Repair, Shingle Roofing	18.18
07 01 50 81-0012	SF	>25 To 50 SF Roof Repair, Shingle Roofing	16.61
07 01 50 81-0013	SF	>50 To 100 SF Roof Repair, Shingle Roofing	15.59
07 01 50 81-0014	LF	Heat Weld Roofing Seams For Repair	7.25

07 01 50 81-0015 Emergency Roof Patch ^(07 01 50 81)

Note: 4 Hour response time.

07 01 50 81-0016	EA	Granule Emergency Roof Patch Cover 16 SF	95.15
07 01 50 81-0017	EA	Mobilize For Emergency Roof Patching	452.91

07 01 50 81-0018 Adhesives ^(07 01 50 81)

Note: For repair of seams.

07 01 50 81-0019 Mastic Sealer ^(07 01 50 81-0018)

07 01 50 81-0020 Applied At Joints Only ^(07 01 50 81-0019)

07 01 50 81-0021	LF	Mastic Sealer, 1/4" Bead At Joint	4.49
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1.93

07 01 50 91 Roofing Restoration ^(07 01 50)

07 01 50 91-0001 Pressure Wash Membrane Roofing ^(07 01 50 91)

07 01 50 91-0002	SF	Up To 2,500 PSI, Pressure Wash Membrane Roofing	0.15
		<i>For Up To 100, Add</i>	<i>0.11</i>
		<i>For >100 To 250, Add</i>	<i>0.05</i>
		<i>For >250 To 500, Add</i>	<i>0.02</i>
		<i>For >5,000 To 10,000, Deduct</i>	<i>-0.01</i>
		<i>For >10,000 To 15,000, Deduct</i>	<i>-0.02</i>
		<i>For >15,000 To 30,000, Deduct</i>	<i>-0.02</i>
		<i>For >30,000, Deduct</i>	<i>-0.03</i>

07 05 Common Work Results for Thermal and Moisture Protection ⁽⁰⁷⁾

07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work ^(07 05)

07 05 13 00-0001 Mobilization Of Crew For Small Quantity Of Roof Work ^(07 05 13)

Note: For use with all roofing tasks where the total quantity of roof work is 4 squares or less.

07 05 13 00-0002	EA	Up To 1 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	1,360.90
07 05 13 00-0003	EA	>1 To 2 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	1,018.23
07 05 13 00-0004	EA	>2 To 3 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	680.45
07 05 13 00-0005	EA	>3 To 4 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	339.41

07 10 Dampproofing and Waterproofing ⁽⁰⁷⁾

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost (where listed). Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing**

07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

the absence of hydrostatic pressure.

07 11 Dampproofing (07 10)**07 11 13 Bituminous Dampproofing** (07 11)**07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray** (07 11 13)

07 11 13 00-0002 CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray174.26
 07 11 13 00-0003 CSF 2 Coats, Brush, Roller Or Spray, Fibrous Asphalt Dampproofing264.84

07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On (07 11 13)

07 11 13 00-0005 CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On302.34
 07 11 13 00-0006 CSF Primer And 2 Coats, Troweled On, Fibrous Asphalt Dampproofing473.28

07 11 13 00-0007 Asphaltic Paint Dampproofing (07 11 13)

07 11 13 00-0008 CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On138.81
 07 11 13 00-0009 CSF 2 Coats, Brushed On, Asphaltic Paint Dampproofing257.22

07 11 19 Sheet Dampproofing (07 11)**07 11 19 00-0001 Neoprene** (07 11 19)

07 11 19 00-0002 SF 1/16" Patch Neoprene Roof (5 To 20 SF)36.35

07 13 Sheet Waterproofing (07 10)**07 13 13 Bituminous Sheet Waterproofing** (07 13)**07 13 13 00-0001 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped** (07 13 13)

07 13 13 00-0002 CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped325.51 110.55
For 30 LB Felt, Add 78.32
For Application To Horizontal Surfaces, Deduct -33.16
 07 13 13 00-0003 CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped413.05 124.36
For 30 LB Felt, Add 123.24
For Application To Horizontal Surfaces, Deduct -37.31
 07 13 13 00-0004 CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped500.57 138.18
For 30 LB Felt, Add 168.16
For Application To Horizontal Surfaces, Deduct -41.45
 07 13 13 00-0005 CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped588.09 152.00
For 30 LB Felt, Add 213.08
For Application To Horizontal Surfaces, Deduct -45.60
 07 13 13 00-0006 CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped675.62 165.82
For 30 LB Felt, Add 257.99
For Application To Horizontal Surfaces, Deduct -49.74

07 13 13 00-0007 Asphalt Coated Protective Board (07 13 13)

07 13 13 00-0008 CSF 1/8" Asphalt Coated Protective Board270.87 109.04
For Application To Horizontal Surfaces, Deduct -36.37
 07 13 13 00-0009 CSF 1/4" Asphalt Coated Protective Board359.14 113.23
For Application To Horizontal Surfaces, Deduct -37.74
 07 13 13 00-0010 CSF 3/8" Asphalt Coated Protective Board465.52 117.99
For Application To Horizontal Surfaces, Deduct -39.32
 07 13 13 00-0011 CSF 1/2" Asphalt Coated Protective Board519.82 122.74
For Application To Horizontal Surfaces, Deduct -40.92

07 13 53 Elastomeric Sheet Waterproofing (07 13)**07 13 53 00-0001 Rubberized Membrane Sheet** (07 13 53)

07 13 53 00-0002 SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface7.51 1.13
For Floor Surfaces, Deduct -1.11

07 13 53 00-0003 Ethylene Propylene Diene Monomer (EPDM) (07 13 53)

07 13 53 00-0004 CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane433.35 158.52
For Application To Horizontal Surfaces, Deduct -47.55
 07 13 53 00-0005 CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane487.05 158.52
For Application To Horizontal Surfaces, Deduct -47.55

07 13 53 00-0006 Butyl Sheet Waterproofing (07 13 53)

07 13 53 00-0007 CSF 1/32" Butyl Sheet Waterproofing100.08 39.63
For Joint Taping, Add 14.14
For Each Additional Ply, Add 74.03
For Application To Horizontal Surfaces, Deduct -5.96



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0008 CSF 1/16" Butyl Sheet Waterproofing..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	119.29 15.10 87.47 -5.96	39.63
07 13 53 00-0009 Butyl With Nylon <small>(07 13 53)</small>		
07 13 53 00-0010 CSF 1/32" Butyl Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	111.06 14.69 81.71 -5.96	39.63
07 13 53 00-0011 CSF 1/16" Butyl Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	123.41 15.30 90.36 -5.96	39.63
07 13 53 00-0012 Neoprene Sheet Waterproofing <small>(07 13 53)</small>		
07 13 53 00-0013 CSF 1/32" Neoprene Sheet Waterproofing..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	174.24 17.85 125.94 -5.96	39.63
07 13 53 00-0014 CSF 1/16" Neoprene Sheet Waterproofing..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	256.01 21.93 183.18 -5.96	39.63
07 13 53 00-0015 Neoprene With Nylon <small>(07 13 53)</small>		
07 13 53 00-0016 CSF 1/32" Neoprene Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	182.77 18.27 131.91 -5.96	39.63
07 13 53 00-0017 CSF 1/16" Neoprene Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	269.64 22.62 192.72 -5.96	39.63
07 13 53 00-0018 Plastic Vapor Barrier (Polyethylene) <small>(07 13 53)</small>		
07 13 53 00-0019 CSF 4 Mil Polyethylene Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	39.75 9.52 31.10 -4.91	14.79
07 13 53 00-0020 CSF 6 Mil Polyethylene Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	40.76 9.57 31.81 -4.91	14.79
07 13 53 00-0021 CSF 10 Mil Polyethylene Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	66.55 10.86 49.86 -4.91	14.79
07 13 53 00-0022 CSF 60 Mil Polyethylene Vapor Barrier With Bentonite..... Note: Includes seam tape, liquid mastic, anchors and termination bar. <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	102.49 75.38 -5.46	14.79
07 13 53 00-0023 Plastic Vapor Barrier (PVC) <small>(07 13 53)</small>		
07 13 53 00-0024 CSF 10 Mil Polyvinyl Chloride (PVC) Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	46.71 9.86 35.97 -4.91	16.36
07 13 53 00-0025 CSF 20 Mil Polyvinyl Chloride (PVC) Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	58.12 10.72 44.08 -5.10	16.97
07 13 53 00-0026 CSF 30 Mil Polyvinyl Chloride (PVC) Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	73.28 11.75 54.81 -5.27	17.57
07 13 53 00-0027 Vinyl Plastic Vapor Barrier <small>(07 13 53)</small>		
07 13 53 00-0028 CSF 4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints (Tu-Tuf #4).....	43.68	15.15

07 14 Fluid-Applied Waterproofing (07 10)

07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing (07 14)

07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating (07 14 13)

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 14 Fluid-Applied Waterproofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 14 13 00-0002 SF 90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	2.40	
Note: Includes primer.		
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.21	
<i>For Reinforcing Fabric, Add</i>	0.54	
07 14 13 00-0003 SF 125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	2.81	
Note: Includes primer.		
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.22	
<i>For Reinforcing Fabric, Add</i>	0.54	
07 14 16 Cold Fluid-Applied Waterproofing (07 14)		
07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane (07 14 16)		
07 14 16 00-0002 SF 60 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing.....	4.01	
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.48	
07 14 16 00-0003 SF 90 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing.....	4.58	
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.50	
07 14 16 00-0004 SF 120 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing.....	5.19	
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.53	
07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene Polymer (07 14 16)		
07 14 16 00-0006 SF 15 Mil Finish Coat, 1 Part Solution, Chlorosulfonated Polyethylene (CSM) Polymer.....	2.66	
07 14 16 00-0007 Copolymer Compound (07 14 16)		
07 14 16 00-0008 SF 32 Mil, Fluid Elastomeric Copolymer Compound For Slabs.....	4.26	
07 14 16 00-0009 Fluid Applied Neoprene (07 14 16)		
07 14 16 00-0010 CSF 1/8" Fiberglass Reinforced, Fluid Applied Neoprene	502.73	
<i>For Application To Horizontal Surfaces, Deduct</i>	-57.75	
07 14 16 00-0011 CSF 50 Mil, 4 Coats, Fluid Applied Neoprene.....	1,019.59	
<i>For Application To Horizontal Surfaces, Deduct</i>	-113.28	
07 14 16 00-0012 CSF 90 Mil, 4 Coats, Fluid Applied Neoprene.....	1,660.98	
<i>For Application To Horizontal Surfaces, Deduct</i>	-169.84	
07 16 Cementitious and Reactive Waterproofing (07 10)		
07 16 13 Polymer Modified Cement Waterproofing (07 16)		
07 16 13 00-0001 SF Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....	4.73	
Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.		
07 16 16 Crystalline Waterproofing (07 16)		
07 16 16 00-0001 SF Crystalline Cementitious Waterproofing, 2 Coats (Xypex Concentrate).....	6.02	
07 16 19 Metal Oxide Waterproofing (07 16)		
07 16 19 00-0001 Metallic Oxide Waterproofing (07 16 19)		
Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat. See CSI section 03 54 16 00-0001 for self leveling underlayment for concrete floors.		
07 16 19 00-0002 CSF Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....	471.57	
<i>For Application To Horizontal Surfaces, Deduct</i>	-58.68	
07 17 Bentonite Waterproofing (07 10)		
07 17 13 Bentonite Panel Waterproofing (07 17)		
07 17 13 00-0001 CSF 3/16" Bentonite Waterproofing Panels.....	450.57	130.10
<i>For Application To Horizontal Surfaces, Deduct</i>	-39.04	
07 17 13 00-0002 CSF 1/4" Bentonite Waterproofing Panels	414.65	137.46
<i>For Application To Horizontal Surfaces, Deduct</i>	-42.25	
07 17 13 00-0003 CSF 5/8" Bentonite Waterproofing Panels	564.55	143.35
<i>For Application To Horizontal Surfaces, Deduct</i>	-42.99	
07 17 13 00-0004 CSF 3/8" Granular Bentonite, Troweled.....	455.84	119.23
<i>For Application To Horizontal Surfaces, Deduct</i>	-35.75	
07 19 Water Repellents (07 10)		
07 19 13 Acrylic Sealer (07 19)		
Note: Per coat.		
07 19 13 00-0001 SF Spray On Concrete, Acrylic Sealer	2.49	
07 19 13 00-0002 SF Spray On Concrete Block/Brick, Acrylic Sealer.....	2.96	
07 19 13 00-0003 SF Spray On Stone, Acrylic Sealer	3.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 19 16 Silane Water Repellents (07 19)

07 19 16 00-0001			Silane Concrete Sealer (07 19 16)		
07 19 16 00-0002	SF		Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)	0.72	
07 19 16 00-0003	SF		Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)	1.05	
07 19 16 00-0004			Silane/Siloxane Concrete Sealer (07 19 16)		
07 19 16 00-0005	SF		Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)	1.27	
			Note: 40% silane, alcohol based.		
07 19 16 00-0006	SF		Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)	1.86	
			Note: 40% silane, alcohol based.		
07 19 16 00-0007	SF		Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)	0.48	
			Note: 200 SF/GAL		
07 19 16 00-0008	SF		Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)	0.71	

07 20 Thermal Protection (07)

07 21 Thermal Insulation (07 20)

07 21 13 Board Insulation (07 21)
Note: Types are stock sizes, mastic applied.

07 21 13 13 Foam Board Insulation (07 21 13)

07 21 13 13-0001			Cold Adhesive Applied Foam Board Insulation (07 21 13 13)		
07 21 13 13-0002			Cold Adhesive Applied, Foam Glass (Cellular Glass), Foam Board Insulation (07 21 13 13-0001)		
07 21 13 13-0003	SF		1" Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied	3.02	0.42
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
07 21 13 13-0004	SF		1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied	4.02	0.42
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
07 21 13 13-0005	SF		2" Thick, R6.88, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied	4.69	0.43
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
07 21 13 13-0006	SF		2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied	6.03	0.44
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
07 21 13 13-0007			Cold Adhesive Applied, Expanded Polystyrene, Foam Board Insulation (07 21 13 13-0001)		
07 21 13 13-0008	SF		3/8" Thick, R1.44, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	1.80	0.41
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
07 21 13 13-0009	SF		1/2" Thick, R1.93, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	1.68	0.41
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
07 21 13 13-0010	SF		3/4" Thick, R2.89, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	1.84	0.41
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
07 21 13 13-0011	SF		1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	1.99	0.42
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
07 21 13 13-0012	SF		2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	2.65	0.43
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
07 21 13 13-0013	SF		3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	3.30	0.44
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
07 21 13 13-0014	SF		4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	3.96	0.45
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
07 21 13 13-0015	SF		5" Thick, R19.25, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	4.60	0.46
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
07 21 13 13-0016	SF		6" Thick, R23.1, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	5.26	0.47
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	

07 21 13 13-0017 Cold Adhesive Applied, Extruded Polystyrene, Foam Board Insulation (07 21 13 13-0001)
Note: 15 PSI compressive strength.

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0018 SF 3/8" Thick, R1.9, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	2.06	0.41
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.22	
For 40 PSI Compressive Strength, Add	0.52	
For 60 PSI Compressive Strength, Add	0.83	
For 115 PSI Compressive Strength, Add	3.59	
07 21 13 13-0019 SF 1/2" Thick, R2.5, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	2.42	0.41
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.28	
For 40 PSI Compressive Strength, Add	0.66	
For 60 PSI Compressive Strength, Add	1.04	
For 115 PSI Compressive Strength, Add	4.52	
07 21 13 13-0020 SF 3/4" Thick, R3.7, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	2.71	0.41
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.32	
For 40 PSI Compressive Strength, Add	0.77	
For 60 PSI Compressive Strength, Add	1.21	
For 115 PSI Compressive Strength, Add	5.26	
07 21 13 13-0021 SF 1" Thick, R5.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	2.23	0.42
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.25	
For 40 PSI Compressive Strength, Add	0.59	
For 60 PSI Compressive Strength, Add	0.93	
For 115 PSI Compressive Strength, Add	4.03	
07 21 13 13-0022 SF 2" Thick, R10.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	3.11	0.43
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.38	
For 40 PSI Compressive Strength, Add	0.91	
For 60 PSI Compressive Strength, Add	1.43	
For 115 PSI Compressive Strength, Add	6.24	
07 21 13 13-0023 SF 3" Thick, R15.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	4.00	0.44
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.52	
For 40 PSI Compressive Strength, Add	1.24	
For 60 PSI Compressive Strength, Add	1.93	
For 115 PSI Compressive Strength, Add	8.48	
07 21 13 13-0024 SF 4" Thick, R20.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	4.46	0.45
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.59	
For 40 PSI Compressive Strength, Add	1.41	
For 60 PSI Compressive Strength, Add	2.19	
For 115 PSI Compressive Strength, Add	9.61	
07 21 13 13-0025 Mechanically Fastened Foam Board Insulation <small>(07 21 13 13)</small>		
Note: Mechanically fastened to wood or steel.		
07 21 13 13-0026 Mechanically Fastened, Foam Glass (Cellular Glass), Foam Board Insulation <small>(07 21 13 13-0025)</small>		
Note: Mechanically fastened to wood or steel.		
07 21 13 13-0027 SF 1" Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened	2.82	0.42
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.91	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.87	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 21 13 13-0028 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened	3.89	0.42
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.82	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	



Thermal And Moisture Protection		07
Thermal Protection		07 20
Thermal Insulation		07 21

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0029 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened.....	4.57	0.43
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.82	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.31	
07 21 13 13-0030 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened.....	5.96	0.44
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.88	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.33	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.51	
07 21 13 13-0031 Mechanically Fastened, Expanded Polystyrene, Foam Board Insulation <small>(07 21 13 13-0025)</small>		
07 21 13 13-0032 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.59	0.41
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.91	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.87	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 21 13 13-0033 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.47	0.41
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.91	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.87	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 21 13 13-0034 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.62	0.41
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.91	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.87	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 21 13 13-0035 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.79	0.42
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.91	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.87	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 21 13 13-0036 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	2.53	0.43
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.82	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.31	

07 Thermal And Moisture Protection

07 20 Thermal Protection

07 21 Thermal Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0037	SF		3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	3.24	0.44
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.88	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.33	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.51	
07 21 13 13-0038	SF		4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	3.99	0.45
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.91	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.45	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.69	
07 21 13 13-0039	SF		5" Thick, R19.25, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	4.77	0.46
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
			<i>For Mechanically Fastened To Gypsum, Add</i>	2.15	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	7.23	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.86	
07 21 13 13-0040	SF		6" Thick, R23.1, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	5.93	0.47
			<i>For Horizontal Surface Application, Deduct</i>	-0.10	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.59	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.62	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.75	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.44	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.37	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.12	
07 21 13 13-0041			Mechanically Fastened, Extruded Polystyrene, Foam Board Insulation ^(07 21 13 13-0025)		
			Note: 15 PSI compressive strength. Mechanically fastened to wood or steel.		
07 21 13 13-0042	SF		3/8" Thick, R1.9, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	1.85	0.41
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.16	
			<i>For 40 PSI Compressive Strength, Add</i>	0.39	
			<i>For 60 PSI Compressive Strength, Add</i>	0.64	
			<i>For 115 PSI Compressive Strength, Add</i>	2.73	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.91	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.87	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 21 13 13-0043	SF		1/2" Thick, R2.5, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	2.21	0.41
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.22	
			<i>For 40 PSI Compressive Strength, Add</i>	0.53	
			<i>For 60 PSI Compressive Strength, Add</i>	0.85	
			<i>For 115 PSI Compressive Strength, Add</i>	3.65	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.91	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.87	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	



Thermal And Moisture Protection		07
Thermal Protection		07 20
Thermal Insulation		07 21

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0044 SF 3/4" Thick, R3.7, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	2.50	0.41
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.27	
For 40 PSI Compressive Strength, Add	0.64	
For 60 PSI Compressive Strength, Add	1.02	
For 115 PSI Compressive Strength, Add	4.40	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.91	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.87	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 21 13 13-0045 SF 1" Thick, R5.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	2.03	0.42
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.19	
For 40 PSI Compressive Strength, Add	0.46	
For 60 PSI Compressive Strength, Add	0.74	
For 115 PSI Compressive Strength, Add	3.17	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.91	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.87	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 21 13 13-0046 SF 2" Thick, R10.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	2.99	0.43
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.34	
For 40 PSI Compressive Strength, Add	0.81	
For 60 PSI Compressive Strength, Add	1.27	
For 115 PSI Compressive Strength, Add	5.54	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.82	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.31	
07 21 13 13-0047 SF 3" Thick, R15.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	3.94	0.44
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.49	
For 40 PSI Compressive Strength, Add	1.16	
For 60 PSI Compressive Strength, Add	1.81	
For 115 PSI Compressive Strength, Add	7.93	
For Mechanically Fastened To Concrete, Add	1.60	
For Mechanically Fastened To Gypsum, Add	1.88	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.79	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.33	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.18	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.51	
07 21 13 13-0048 SF 4" Thick, R20.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	4.49	0.45
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.57	
For 40 PSI Compressive Strength, Add	1.36	
For 60 PSI Compressive Strength, Add	2.13	
For 115 PSI Compressive Strength, Add	9.32	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Gypsum, Add	1.91	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.92	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.45	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.38	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.69	
07 21 13 16 Fibrous Board Insulation (07 21 13)		
07 21 13 16-0001 Cold Adhesive Applied Fibrous Board Insulation (07 21 13 16)		
07 21 13 16-0002 Cold Adhesive Applied, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation (07 21 13 16-0001)		
07 21 13 16-0003 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied.....	2.20	0.52
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 16-0004	SF	2" Thick, R5.2, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i>	3.02 -0.11 0.05 0.17	0.62
07 21 13 16-0005	SF	3" Thick, R7.8, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i>	3.84 -0.12 0.05 0.17	0.73
07 21 13 16-0006		Cold Adhesive Applied, Fiberglass, Fibrous Board Insulation <small>(07 21 13 16-0001)</small>		
07 21 13 16-0007	SF	1" Thick, R4.2, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i>	3.40 -0.07 0.05 0.17	0.42
07 21 13 16-0008	SF	1-1/2" Thick, R6.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i>	5.50 -0.07 0.05 0.17	0.42
07 21 13 16-0009	SF	2" Thick, R8.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i>	6.80 -0.07 0.05 0.17	0.43
07 21 13 16-0010	SF	2-1/2" Thick, R10.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i>	7.85 -0.07 0.05 0.17	0.43
07 21 13 16-0011	SF	3" Thick, R12.4, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i>	8.89 -0.07 0.05 0.17	0.44
07 21 13 16-0012		Mechanically Fastened Fibrous Board Insulation <small>(07 21 13 16)</small> Note: Mechanically fastened to wood or steel.		
07 21 13 16-0013		Mechanically Fastened, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation <small>(07 21 13 16-0012)</small> Note: Mechanically fastened to wood or steel.		
07 21 13 16-0014	SF	1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	1.86 -0.09 0.05 0.17 1.51 1.86 0.56 1.91 2.19 0.83 2.87 3.28	0.52
07 21 13 16-0015	SF	2" Thick, R5.2, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	2.74 -0.11 0.05 0.17 1.56 1.82 0.69 1.95 2.21 1.03 2.89 3.31	0.62
07 21 13 16-0016	SF	3" Thick, R7.8, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.62 -0.12 0.05 0.17 1.60 1.88 0.79 2.05 2.33 1.18 3.08 3.51	0.73
07 21 13 16-0017		Mechanically Fastened, Fiberglass, Fibrous Board Insulation <small>(07 21 13 16-0012)</small> Note: Mechanically fastened to wood or steel.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 16-0018 SF 1" Thick, R4.2, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	3.20	0.42
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.91	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.87	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 21 13 16-0019 SF 1-1/2" Thick, R6.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened	5.37	0.42
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.82	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 21 13 16-0020 SF 2" Thick, R8.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	6.67	0.43
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.82	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.31	
07 21 13 16-0021 SF 2-1/2" Thick, R10.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened	7.79	0.43
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.85	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.30	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.45	
07 21 13 16-0022 SF 3" Thick, R12.4, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	8.83	0.44
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.88	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.33	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.51	
07 21 13 19 Mineral Board Insulation (07 21 13)		
07 21 13 19-0001 Cold Adhesive Applied Mineral Board Insulation (07 21 13 19)		
07 21 13 19-0002 Cold Adhesive Applied, High-Density Fiberboard, Mineral Board Insulation <small>(07 21 13 19-0001)</small>		
07 21 13 19-0003 SF 1/2" Thick, R1.3, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	1.77	0.47
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 19-0004 SF 25/32" Thick, R1.9, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	2.01	0.49
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 19-0005 SF 1" Thick, R2.5, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	2.28	0.52
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 19-0006 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	2.72	0.57
<i>For Horizontal Surface Application, Deduct</i>	-0.10	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 19-0007 SF 2" Thick, R5.0, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	3.18	0.62
For Horizontal Surface Application, Deduct	-0.11	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 19-0008 SF 3" Thick, R7.5, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	4.07	0.73
For Horizontal Surface Application, Deduct	-0.12	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 19-0009 Mechanically Fastened Mineral Board Insulation (07 21 13 19)		
Note: Mechanically fastened to wood or steel.		
07 21 13 19-0010 Mechanically Fastened, High-Density Fiberboard, Mineral Board Insulation		
(07 21 13 19-0009)		
Note: Mechanically fastened to wood or steel.		
07 21 13 19-0011 SF 1/2" Thick, R1.3, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	1.43	0.47
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.91	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.87	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 21 13 19-0012 SF 25/32" Thick, R1.9, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	1.67	0.49
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.91	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.87	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 21 13 19-0013 SF 1" Thick, R2.5, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	1.94	0.52
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.91	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.87	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 21 13 19-0014 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	2.44	0.57
For Horizontal Surface Application, Deduct	-0.10	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.82	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 21 13 19-0015 SF 2" Thick, R5.0, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	2.89	0.62
For Horizontal Surface Application, Deduct	-0.11	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.82	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.31	
07 21 13 19-0016 SF 3" Thick, R7.5, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	3.85	0.73
For Horizontal Surface Application, Deduct	-0.12	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.60	
For Mechanically Fastened To Gypsum, Add	1.88	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.79	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.33	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.18	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.51	



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 21 16

Blanket Insulation (07 21)

Note: All insulation rolls or batts applied to wood or steel studs or between rafters or between metal building "skin" and framing.

07 21 16 00-0001	Fiberglass Flexible Insulation (07 21 16)		
	Note: Rolls or batts.		
07 21 16 00-0002	Kraft Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0003	SF 3-1/2" Thick, Kraft Faced, R-11 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.91 -0.22	0.55
07 21 16 00-0004	SF 3-1/2" Thick, Kraft Faced, R-13 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.08 -0.25	0.55
07 21 16 00-0005	SF 3-1/2" Thick, Kraft Faced, R-15 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.13 -0.26	0.55
07 21 16 00-0006	SF 5-1/2" Thick, Kraft Faced, R-21 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.90 -0.41	0.55
07 21 16 00-0007	SF 6-1/4" Thick, Kraft Faced, R-19 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.41 -0.31	0.55
07 21 16 00-0008	SF 9-1/2" Thick, Kraft Faced, R-30 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	3.40 -0.48	0.68
07 21 16 00-0009	SF 12" Thick, Kraft Faced, R-38 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	3.86 -0.54	0.68
07 21 16 00-0010	Unfaced, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0011	SF 3-1/2" Thick, Unfaced, R-11 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	1.80 -0.20	0.55
07 21 16 00-0012	SF 3-1/2" Thick, Unfaced, R-13 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	1.99 -0.24	0.55
07 21 16 00-0013	SF 3-1/2" Thick, Unfaced, R-15 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.71 -0.38	0.55
07 21 16 00-0014	SF 5-1/2" Thick, Unfaced, R-21 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.78 -0.39	0.55
07 21 16 00-0015	SF 6-1/4" Thick, Unfaced, R-19 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.33 -0.29	0.55
07 21 16 00-0016	SF 9-1/2" Thick, Unfaced, R-30 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	3.18 -0.44	0.68
07 21 16 00-0017	SF 12" Thick, Unfaced, R-38 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	3.72 -0.51	0.68
07 21 16 00-0018	Foil Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0019	SF 3-1/2" Thick, Foil Faced, R-11 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.21 -0.28	0.55
07 21 16 00-0020	SF 3-1/2" Thick, Foil Faced, R-13 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.49 -0.34	0.55
07 21 16 00-0021	SF 6-1/4" Thick, Foil Faced, R-19 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.80 -0.38	0.55
07 21 16 00-0022	SF 10-1/4" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	4.00 -0.58	0.68
07 21 16 00-0023	SF 12" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	4.39 -0.65	0.68
07 21 16 00-0024	Poly-Encapsulated, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0025	SF 3-1/2" Thick, Poly-Encapsulated, R-11 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.96 -0.23	0.55
07 21 16 00-0026	SF 3-1/2" Thick, Poly-Encapsulated, R-13 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.13 -0.26	0.55
07 21 16 00-0027	SF 5-1/2" Thick, Poly-Encapsulated, R-21 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	3.00 -0.43	0.55
07 21 16 00-0028	SF 6-1/2" Thick, Poly-Encapsulated, R-19 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.44 -0.31	0.55
07 21 16 00-0029	SF 8-1/4" Thick, Poly-Encapsulated, R-25 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	3.32 -0.48	0.68
07 21 16 00-0030	SF 10-1/4" Thick, Poly-Encapsulated, R-30 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	3.72 -0.51	0.68
07 21 16 00-0031	Mineral Wool Flexible Insulation (07 21 16)		
07 21 16 00-0032	Kraft Faced, Mineral Wool Flexible Insulation (07 21 16 00-0031)		
07 21 16 00-0033	SF 3-1/2" Kraft Faced, R-11 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	2.16 -0.27	0.55
07 21 16 00-0034	SF 6-1/4" Kraft Faced, R-19 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	2.92 -0.41	0.55
07 21 16 00-0035	SF 9-1/2" Kraft Faced, R-30 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	4.65 -0.73	0.55
07 21 16 00-0036	SF 12" Kraft Faced, R-38 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	5.55 -0.88	0.55

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 16 00-0037			Unfaced, Mineral Wool Flexible Insulation (07 21 16 00-0031)		
07 21 16 00-0038	SF		3-1/2" Unfaced, R-11 Mineral Wool Flexible Insulation.....	2.00	0.55
			<i>For >1,600, Deduct</i>	-0.24	
07 21 16 00-0039	SF		6-1/4" Unfaced, R-19 Mineral Wool Flexible Insulation.....	2.66	0.55
			<i>For >1,600, Deduct</i>	-0.36	
07 21 16 00-0040	SF		9-1/2" Unfaced, R-30 Mineral Wool Flexible Insulation.....	4.15	0.55
			<i>For >1,600, Deduct</i>	-0.63	
07 21 16 00-0041	SF		12" Unfaced, R-38 Mineral Wool Flexible Insulation.....	4.95	0.55
			<i>For >1,600, Deduct</i>	-0.76	
07 21 16 00-0042			Natural Cotton Insulation (07 21 16)		
07 21 16 00-0043			UltraTouch™ Natural Cotton Insulation (07 21 16 00-0042)		
			Note: 85% recycled denim cotton.		
07 21 16 00-0044	SF		3-1/2", R-13 UltraTouch™ Natural Cotton Insulation.....	3.02	0.55
			<i>For >1,600, Deduct</i>	-0.44	
07 21 16 00-0045	SF		5-1/2", R-19 UltraTouch™ Natural Cotton Insulation.....	3.40	0.55
			<i>For >1,600, Deduct</i>	-0.51	
07 21 16 00-0046	SF		5-1/2", R-21 UltraTouch™ Natural Cotton Insulation.....	3.82	0.55
			<i>For >1,600, Deduct</i>	-0.60	
07 21 16 00-0047	SF		8", R-30 UltraTouch™ Natural Cotton Insulation.....	5.12	0.55
			<i>For >1,600, Deduct</i>	-0.84	
07 21 19			Foamed-In-Place Insulation (07 21)		
07 21 19 00-0001			Polyurethane Foam Insulation, Sprayed On (07 21 19)		
07 21 19 00-0002	EA		Foamed-In-Place, Spray Polyurethane Insulation Minimum Charge.....	1,438.17	
			Note: For projects where the total foamed-in-place insulation charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
07 21 19 00-0003	SF		1" Thick, R3.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	1.47	
			<i>For Up To 250 SF, Add</i>	0.56	
			<i>For >250 To 500 SF, Add</i>	0.28	
			<i>For >500 To 1,000 SF, Add</i>	0.12	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.18	
			<i>For >10,000 SF, Deduct</i>	-0.44	
07 21 19 00-0004	SF		1-1/2" Thick, R5.7, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	1.99	
			<i>For Up To 250 SF, Add</i>	0.73	
			<i>For >250 To 500 SF, Add</i>	0.36	
			<i>For >500 To 1,000 SF, Add</i>	0.15	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.23	
			<i>For >10,000 SF, Deduct</i>	-0.57	
07 21 19 00-0005	SF		2" Thick, R7.6, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	2.51	
			<i>For Up To 250 SF, Add</i>	0.90	
			<i>For >250 To 500 SF, Add</i>	0.45	
			<i>For >500 To 1,000 SF, Add</i>	0.19	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.29	
			<i>For >10,000 SF, Deduct</i>	-0.71	
07 21 19 00-0006	SF		2-1/2" Thick, R9.5, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	3.03	
			<i>For Up To 250 SF, Add</i>	1.07	
			<i>For >250 To 500 SF, Add</i>	0.53	
			<i>For >500 To 1,000 SF, Add</i>	0.23	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.34	
			<i>For >10,000 SF, Deduct</i>	-0.84	
07 21 19 00-0007	SF		3" Thick, R11.4, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	3.55	
			<i>For Up To 250 SF, Add</i>	1.24	
			<i>For >250 To 500 SF, Add</i>	0.62	
			<i>For >500 To 1,000 SF, Add</i>	0.27	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.40	
			<i>For >10,000 SF, Deduct</i>	-0.97	
07 21 19 00-0008	SF		3-1/2" Thick, R13.3, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	4.07	
			<i>For Up To 250 SF, Add</i>	1.41	
			<i>For >250 To 500 SF, Add</i>	0.70	
			<i>For >500 To 1,000 SF, Add</i>	0.30	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.45	
			<i>For >10,000 SF, Deduct</i>	-1.11	
07 21 19 00-0009	SF		4" Thick, R15.2, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	4.58	
			<i>For Up To 250 SF, Add</i>	1.58	
			<i>For >250 To 500 SF, Add</i>	0.79	
			<i>For >500 To 1,000 SF, Add</i>	0.34	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.51	
			<i>For >10,000 SF, Deduct</i>	-1.24	
07 21 19 00-0010	SF		4-1/2" Thick, R17.1, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	5.10	
			<i>For Up To 250 SF, Add</i>	1.75	
			<i>For >250 To 500 SF, Add</i>	0.87	
			<i>For >500 To 1,000 SF, Add</i>	0.38	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.56	
			<i>For >10,000 SF, Deduct</i>	-1.37	
07 21 19 00-0011	SF		5" Thick, R19.0, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	5.61	
			<i>For Up To 250 SF, Add</i>	1.91	
			<i>For >250 To 500 SF, Add</i>	0.96	
			<i>For >500 To 1,000 SF, Add</i>	0.41	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.62	
			<i>For >10,000 SF, Deduct</i>	-1.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 19 00-0012 SF 5-1/2" Thick, R20.9, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation	6.14	
For Up To 250 SF, Add	2.09	
For >250 To 500 SF, Add	1.04	
For >500 To 1,000 SF, Add	0.45	
For >5,000 To 10,000 SF, Deduct	-0.68	
For >10,000 SF, Deduct	-1.64	
07 21 19 00-0013 SF 6" Thick, R22.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	6.66	
For Up To 250 SF, Add	2.26	
For >250 To 500 SF, Add	1.13	
For >500 To 1,000 SF, Add	0.49	
For >5,000 To 10,000 SF, Deduct	-0.73	
For >10,000 SF, Deduct	-1.77	
07 21 19 00-0014 SF 1" Thick, R6.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	2.84	
For Up To 250 SF, Add	1.06	
For >250 To 500 SF, Add	0.53	
For >500 To 1,000 SF, Add	0.22	
For >5,000 To 10,000 SF, Deduct	-0.34	
For >10,000 SF, Deduct	-0.84	
07 21 19 00-0015 SF 1-1/2" Thick, R9.75, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	3.77	
For Up To 250 SF, Add	1.35	
For >250 To 500 SF, Add	0.67	
For >500 To 1,000 SF, Add	0.29	
For >5,000 To 10,000 SF, Deduct	-0.43	
For >10,000 SF, Deduct	-1.06	
07 21 19 00-0016 SF 2" Thick, R13.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	4.58	
For Up To 250 SF, Add	1.58	
For >250 To 500 SF, Add	0.79	
For >500 To 1,000 SF, Add	0.34	
For >5,000 To 10,000 SF, Deduct	-0.51	
For >10,000 SF, Deduct	-1.24	
07 21 19 00-0017 SF 2-1/2" Thick, R16.25, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	5.50	
For Up To 250 SF, Add	1.86	
For >250 To 500 SF, Add	0.93	
For >500 To 1,000 SF, Add	0.40	
For >5,000 To 10,000 SF, Deduct	-0.60	
For >10,000 SF, Deduct	-1.46	
07 21 19 00-0018 SF 3" Thick, R19.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	6.32	
For Up To 250 SF, Add	2.09	
For >250 To 500 SF, Add	1.04	
For >500 To 1,000 SF, Add	0.45	
For >5,000 To 10,000 SF, Deduct	-0.68	
For >10,000 SF, Deduct	-1.63	
07 21 19 00-0019 SF 3-1/2" Thick, R22.75, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	7.25	
For Up To 250 SF, Add	2.37	
For >250 To 500 SF, Add	1.19	
For >500 To 1,000 SF, Add	0.52	
For >5,000 To 10,000 SF, Deduct	-0.77	
For >10,000 SF, Deduct	-1.86	
07 21 19 00-0020 SF 4" Thick, R26.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	8.07	
For Up To 250 SF, Add	2.60	
For >250 To 500 SF, Add	1.30	
For >500 To 1,000 SF, Add	0.57	
For >5,000 To 10,000 SF, Deduct	-0.85	
For >10,000 SF, Deduct	-2.04	
07 21 19 00-0021 SF 4-1/2" Thick, R29.25, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	8.99	
For Up To 250 SF, Add	2.89	
For >250 To 500 SF, Add	1.44	
For >500 To 1,000 SF, Add	0.63	
For >5,000 To 10,000 SF, Deduct	-0.95	
For >10,000 SF, Deduct	-2.26	
07 21 19 00-0022 SF 5" Thick, R32.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	9.81	
For Up To 250 SF, Add	3.12	
For >250 To 500 SF, Add	1.56	
For >500 To 1,000 SF, Add	0.68	
For >5,000 To 10,000 SF, Deduct	-1.02	
For >10,000 SF, Deduct	-2.43	
07 21 19 00-0023 SF 5-1/2" Thick, R35.75, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	10.72	
For Up To 250 SF, Add	3.40	
For >250 To 500 SF, Add	1.70	
For >500 To 1,000 SF, Add	0.74	
For >5,000 To 10,000 SF, Deduct	-1.12	
For >10,000 SF, Deduct	-2.65	
07 21 19 00-0024 SF 6" Thick, R39.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	11.54	
For Up To 250 SF, Add	3.63	
For >250 To 500 SF, Add	1.81	
For >500 To 1,000 SF, Add	0.80	
For >5,000 To 10,000 SF, Deduct	-1.19	
For >10,000 SF, Deduct	-2.83	
 07 21 19 00-0025 Expanding Foam Insulation To Fill Hollow Metal Door Frames (07 21 19)		
07 21 19 00-0026 LF Expanding Foam Insulation To Fill 4-3/4" Deep Hollow Metal Door Frame	5.06	
07 21 19 00-0027 LF Expanding Foam Insulation To Fill 5-3/4" Deep Hollow Metal Door Frame	6.31	
07 21 19 00-0028 LF Expanding Foam Insulation To Fill 6-3/4" Deep Hollow Metal Door Frame	7.57	
07 21 19 00-0029 LF Expanding Foam Insulation To Fill 8-3/4" Through 8-3/4" Deep Hollow Metal Door Frame	8.88	
07 21 19 00-0030 LF Expanding Foam Insulation To Fill 8-7/8" Through 13" Deep Hollow Metal Door Frame.....	10.27	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 19 00-0031 Expanding Foam Insulation To Fill Window Frames (07 21 19)		
07 21 19 00-0032 LF Expanding Foam Insulation To Fill Window Frame.....	4.95	
07 21 23 Loose-Fill Insulation (07 21)		
07 21 23 00-0001 Poured Type, Loose Fill Insulation (07 21 23)		
07 21 23 00-0002 CF R-4/Inch, Poured Type, Fiberglass Loose Fill Insulation.....	7.77	3.16
07 21 23 00-0003 CF R-3.8/Inch, Poured Type, Cellulose Loose Fill Insulation.....	8.10	3.16
07 21 23 00-0004 Concrete Block Wall Cavity Insulation (07 21 23)		
07 21 23 00-0005 CF R-2.7, Vermiculite Or Perlite, Concrete Block Wall Cavity Insulation.....	12.26	3.16
07 21 23 00-0006 CF R-4, Polystyrene Foam, Concrete Block Wall Cavity Insulation.....	12.14	3.16
07 21 26 Blown Insulation (07 21)		
07 21 26 00-0001 Fiberglass Blown-In Insulation (07 21 26)		
07 21 26 00-0002 Attic, Fiberglass Blown-In Insulation (07 21 26 00-0001)		
07 21 26 00-0003 SF 4-1/2" Thick, R-11 Attic, Fiberglass Blown In Insulation.....	1.58	1.33
07 21 26 00-0004 SF 5-1/4" Thick, R-13 Attic, Fiberglass Blown In Insulation.....	1.76	1.47
07 21 26 00-0005 SF 6-1/2" Thick, R-17 Attic, Fiberglass Blown In Insulation.....	1.94	1.60
07 21 26 00-0006 SF 7-1/2" Thick, R-19 Attic, Fiberglass Blown In Insulation.....	2.16	1.74
07 21 26 00-0007 SF 8-1/2" Thick, R-22 Attic, Fiberglass Blown In Insulation.....	2.29	1.80
07 21 26 00-0008 SF 10-1/4" Thick, R-26 Attic, Fiberglass Blown In Insulation.....	2.45	1.87
07 21 26 00-0009 SF 11-1/2" Thick, R-30 Attic, Fiberglass Blown In Insulation.....	2.62	1.94
07 21 26 00-0010 SF 12-1/2" Thick, R-32 Attic, Fiberglass Blown In Insulation.....	2.74	2.00
07 21 26 00-0011 SF 13-1/2" Thick, R-35 Attic, Fiberglass Blown In Insulation.....	2.94	2.14
07 21 26 00-0012 SF 14-1/2" Thick, R-38 Attic, Fiberglass Blown In Insulation.....	3.10	2.21
07 21 26 00-0013 SF 16-1/2" Thick, R-44 Attic, Fiberglass Blown In Insulation.....	3.30	2.27
07 21 26 00-0014 SF 18-1/2" Thick, R-49 Attic, Fiberglass Blown In Insulation.....	3.56	2.40
07 21 26 00-0015 SF 21-3/4" Thick, R-60 Attic, Fiberglass Blown In Insulation.....	4.10	2.67
07 21 26 00-0016 New Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001)		
07 21 26 00-0017 SF 3-1/2" Thick, R-15 New Wall, Fiberglass Blown In Insulation	2.23	1.33
07 21 26 00-0018 SF 5-1/2" Thick, R-23 New Wall, Fiberglass Blown In Insulation	2.92	1.60
07 21 26 00-0019 SF 7-1/4" Thick, R-31 New Wall, Fiberglass Blown In Insulation	3.42	1.74
07 21 26 00-0020 SF 9-1/4" Thick, R-39 New Wall, Fiberglass Blown In Insulation	4.00	1.87
07 21 26 00-0021 Existing Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001)		
Note: Includes drilling. Excludes patching.		
07 21 26 00-0022 SF 3-1/2" Thick, R-15 Existing Wall, Fiberglass Blown In Insulation	2.07	1.33
07 21 26 00-0023 SF 5-1/2" Thick, R-23 Existing Wall, Fiberglass Blown In Insulation	2.76	1.60
07 21 26 00-0024 SF 7-1/4" Thick, R-31 Existing Wall, Fiberglass Blown In Insulation	3.26	1.74
07 21 26 00-0025 SF 9-1/4" Thick, R-39 Existing Wall, Fiberglass Blown In Insulation	3.84	1.87
07 21 26 00-0026 Cellulose Blown-In Insulation (07 21 26)		
07 21 26 00-0027 Attic, Cellulose Blown-In Insulation (07 21 26 00-0026)		
07 21 26 00-0028 SF 3-3/4" Thick, R-13 Attic, Cellulose Blown In Insulation	1.63	1.33
07 21 26 00-0029 SF 5-1/2" Thick, R-19 Attic, Cellulose Blown In Insulation	1.93	1.47
07 21 26 00-0030 SF 6-1/4" Thick, R-22 Attic, Cellulose Blown In Insulation	2.15	1.60
07 21 26 00-0031 SF 7-3/4" Thick, R-28 Attic, Cellulose Blown In Insulation	2.47	1.74
07 21 26 00-0032 SF 8-1/2" Thick, R-30 Attic, Cellulose Blown In Insulation	2.51	1.74
07 21 26 00-0033 SF 10-3/4" Thick, R-38 Attic, Cellulose Blown In Insulation	2.88	1.87
07 21 26 00-0034 SF 11-1/4" Thick, R-40 Attic, Cellulose Blown In Insulation	2.94	1.87
07 21 26 00-0035 SF 12-1/2" Thick, R-45 Attic, Cellulose Blown In Insulation	3.21	2.00
07 21 26 00-0036 SF 13-3/4" Thick, R-50 Attic, Cellulose Blown In Insulation	3.38	2.00
07 21 26 00-0037 SF 15-1/2" Thick, R-55 Attic, Cellulose Blown In Insulation	3.65	2.14
07 21 26 00-0038 SF 16-1/2" Thick, R-60 Attic, Cellulose Blown In Insulation	3.82	2.14
07 21 26 00-0039 New Wall, Cellulose Blown-In Insulation (07 21 26 00-0026)		
07 21 26 00-0040 SF 3-1/2" Thick, R-13 New Wall, Cellulose Blown In Insulation	2.14	1.33
07 21 26 00-0041 SF 5-1/2" Thick, R-20 New Wall, Cellulose Blown In Insulation	2.78	1.60
07 21 26 00-0042 SF 7-1/4" Thick, R-27 New Wall, Cellulose Blown In Insulation	3.22	1.74
07 21 26 00-0043 SF 9-1/4" Thick, R-34 New Wall, Cellulose Blown In Insulation	3.75	1.87
07 21 26 00-0044 Existing Wall, Cellulose Blown-In Insulation (07 21 26 00-0026)		
Note: Includes drilling. Excludes patching.		
07 21 26 00-0045 SF 3-1/2" Thick, R-13 Existing Wall, Cellulose Blown In Insulation	1.98	1.33
07 21 26 00-0046 SF 5-1/2" Thick, R-20 Existing Wall, Cellulose Blown In Insulation	2.62	1.60
07 21 26 00-0047 SF 7-1/4" Thick, R-27 Existing Wall, Cellulose Blown In Insulation	3.06	1.74



Thermal And Moisture Protection		07
Thermal Protection		07 20
Thermal Insulation		07 21

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 26 00-0048 SF 9-1/4" Thick, R-34 Existing Wall, Cellulose Blown In Insulation.....	3.59	1.87
07 21 29 Sprayed Insulation (07 21)		
07 21 29 00-0001 Fiber Sprayed On Insulation (07 21 29)		
Note: Per each 1" of thickness.		
07 21 29 00-0002 SF 1" Thick, R2.7, Spray-on Perlite Insulation	2.83	0.70
07 21 29 00-0003 SF 1" Thick, R3.7, Spray-on Fibrous/Cementitious Insulation.....	2.03	0.70
07 21 29 00-0004 Cellulose Sprayed On Insulation (07 21 29)		
07 21 29 00-0005 SF 1" Thick, Spray-on Cellulose Insulation	4.28	0.70
07 21 53 Reflective Insulation (07 21)		
07 21 53 00-0001 Reflective Barrier Insulation (Foil - Single Bubble - Foil) (07 21 53)		
07 21 53 00-0002 SF 3/16" Nominal Thickness, Reflective Barrier Insulation, With Single Bubble Air Space	1.25	
07 22 Roof and Deck Insulation (07 20)		
07 22 16 Roof Board Insulation (07 22)		
Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. Types are stock sizes set in cold applied adhesive. Apply modifiers for specified alternate attachment.		
07 22 16 00-0001 Rigid Board Roofing Insulation (07 22 16)		
Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. See CSI section 07 22 16 00-0466 for demolition of insulation board.		
07 22 16 00-0002 Cold Adhesive Applied Rigid Board Roofing Insulation (07 22 16 00-0001)		
07 22 16 00-0003 Cold Adhesive Applied, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0004 SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	2.21	
07 22 16 00-0005 SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	2.49	
07 22 16 00-0006 SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	2.76	
07 22 16 00-0007 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	3.26	
07 22 16 00-0008 SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	3.76	
07 22 16 00-0009 Cold Adhesive Applied, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0010 SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Cold Adhesive Applied.....	2.62	
07 22 16 00-0011 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Cold Adhesive Applied.....	2.68	
07 22 16 00-0012 Cold Adhesive Applied, Perlite, Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0013 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.11	
07 22 16 00-0014 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.11	
07 22 16 00-0015 SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Cold Adhesive Applied	2.27	
07 22 16 00-0016 SF 1" Thick, R2.78, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.44	
07 22 16 00-0017 SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.89	
07 22 16 00-0018 SF 2" Thick, R5.56, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	3.16	
07 22 16 00-0019 Cold Adhesive Applied, Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0020 SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied	2.68	
07 22 16 00-0021 SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied	3.38	
07 22 16 00-0022 SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied	4.21	
07 22 16 00-0023 Cold Adhesive Applied, Foam Glass (Cellular Glass), Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0024 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied	4.42	
07 22 16 00-0025 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied	5.09	
07 22 16 00-0026 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied	6.44	
07 22 16 00-0027 SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied.....	12.18	
07 22 16 00-0028 Cold Adhesive Applied, Molded Expanded Polystyrene, Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0029 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	2.26	
For Loose-Laid, Deduct	-1.23	
07 22 16 00-0030 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	2.14	
For Loose-Laid, Deduct	-1.23	
07 22 16 00-0031 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	2.31	
For Loose-Laid, Deduct	-1.23	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0032 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	2.47	
<i>For Loose-Laid, Deduct</i>	-1.24	
07 22 16 00-0033 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	3.14	
<i>For Loose-Laid, Deduct</i>	-1.25	
07 22 16 00-0034 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	3.79	
<i>For Loose-Laid, Deduct</i>	-1.26	
07 22 16 00-0035 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	4.46	
<i>For Loose-Laid, Deduct</i>	-1.28	
07 22 16 00-0036 SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	5.12	
<i>For Loose-Laid, Deduct</i>	-1.29	
07 22 16 00-0037 SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	5.79	
<i>For Loose-Laid, Deduct</i>	-1.31	
07 22 16 00-0038 Cold Adhesive Applied, Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0002)		
Note: 15 PSI compressive strength.		
07 22 16 00-0039 SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	3.10	
<i>For Loose-Laid, Deduct</i>	-1.19	
<i>For 25 PSI Compressive Strength, Add</i>	0.32	
<i>For 40 PSI Compressive Strength, Add</i>	0.77	
<i>For 60 PSI Compressive Strength, Add</i>	1.23	
<i>For 115 PSI Compressive Strength, Add</i>	5.30	
07 22 16 00-0040 SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	2.62	
<i>For Loose-Laid, Deduct</i>	-1.19	
<i>For 25 PSI Compressive Strength, Add</i>	0.25	
<i>For 40 PSI Compressive Strength, Add</i>	0.59	
<i>For 60 PSI Compressive Strength, Add</i>	0.95	
<i>For 115 PSI Compressive Strength, Add</i>	4.07	
07 22 16 00-0041 SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	4.01	
<i>For Loose-Laid, Deduct</i>	-1.19	
<i>For 25 PSI Compressive Strength, Add</i>	0.47	
<i>For 40 PSI Compressive Strength, Add</i>	1.11	
<i>For 60 PSI Compressive Strength, Add</i>	1.75	
<i>For 100 PSI Compressive Strength, Add</i>	2.25	
<i>For 115 PSI Compressive Strength, Add</i>	7.64	
07 22 16 00-0042 SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	3.51	
<i>For Loose-Laid, Deduct</i>	-1.21	
<i>For 25 PSI Compressive Strength, Add</i>	0.38	
<i>For 40 PSI Compressive Strength, Add</i>	0.91	
<i>For 60 PSI Compressive Strength, Add</i>	1.45	
<i>For 115 PSI Compressive Strength, Add</i>	6.28	
07 22 16 00-0043 SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	5.55	
<i>For Loose-Laid, Deduct</i>	-1.21	
<i>For 25 PSI Compressive Strength, Add</i>	0.71	
<i>For 40 PSI Compressive Strength, Add</i>	1.69	
<i>For 60 PSI Compressive Strength, Add</i>	2.63	
<i>For 100 PSI Compressive Strength, Add</i>	3.39	
<i>For 115 PSI Compressive Strength, Add</i>	11.52	
07 22 16 00-0044 SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	4.41	
<i>For Loose-Laid, Deduct</i>	-1.22	
<i>For 25 PSI Compressive Strength, Add</i>	0.52	
<i>For 40 PSI Compressive Strength, Add</i>	1.24	
<i>For 60 PSI Compressive Strength, Add</i>	1.95	
<i>For 115 PSI Compressive Strength, Add</i>	8.52	
07 22 16 00-0045 SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	4.87	
<i>For Loose-Laid, Deduct</i>	-1.23	
<i>For 25 PSI Compressive Strength, Add</i>	0.59	
<i>For 40 PSI Compressive Strength, Add</i>	1.41	
<i>For 60 PSI Compressive Strength, Add</i>	2.21	
<i>For 115 PSI Compressive Strength, Add</i>	9.65	
07 22 16 00-0046 Cold Adhesive Applied, Polyisocyanurate Board Roofing Insulation (07 22 16 00-0002)		
07 22 16 00-0047 SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	2.78	
<i>For Loose-Laid, Deduct</i>	-1.19	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.17	
07 22 16 00-0048 SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	2.88	
<i>For Loose-Laid, Deduct</i>	-1.19	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.18	
07 22 16 00-0049 SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	3.05	
<i>For Loose-Laid, Deduct</i>	-1.20	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.20	
07 22 16 00-0050 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	3.49	
<i>For Loose-Laid, Deduct</i>	-1.21	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.24	
07 22 16 00-0051 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	3.92	
<i>For Loose-Laid, Deduct</i>	-1.21	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0052 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	4.37	
<i>For Loose-Laid, Deduct</i>	-1.22	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.32	
07 22 16 00-0053 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	4.85	
<i>For Loose-Laid, Deduct</i>	-1.23	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.37	
07 22 16 00-0054 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	5.27	
<i>For Loose-Laid, Deduct</i>	-1.23	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.41	
07 22 16 00-0055 Cold Adhesive Applied, High-Density Polyisocyanurate Cover Board And Roofing Insulation (07 22 16 00-0002)		
07 22 16 00-0056 SF 1/2" Thick, R2.5, High-Density Polyisocyanurate Cover Board And Roofing Insulation, Cold Adhesive Applied	3.14	
07 22 16 00-0057 Cold Adhesive Applied, Gypsum-Fiber, Roof Board Insulation (USG Securock) (07 22 16 00-0002)		
07 22 16 00-0058 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	2.97	
07 22 16 00-0059 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	3.15	
07 22 16 00-0060 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	3.28	
07 22 16 00-0061 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	3.34	
07 22 16 00-0062 Cold Adhesive Applied, Glass-Mat, Roof Board Insulation (USG Securock) (07 22 16 00-0002)		
07 22 16 00-0063 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied	2.91	
07 22 16 00-0064 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied	3.18	
07 22 16 00-0065 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied	3.25	
07 22 16 00-0066 Cold Adhesive Applied, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation (07 22 16 00-0002)		
<i>Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.</i>		
07 22 16 00-0067 SF 1.5" Thick, R6.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.06	
07 22 16 00-0068 SF 2" Thick, R9.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.31	
07 22 16 00-0069 SF 2.5" Thick, R12.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.65	
07 22 16 00-0070 SF 3" Thick, R15.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.87	
07 22 16 00-0071 SF 3.5" Thick, R18.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.38	
07 22 16 00-0072 SF 4" Thick, R21.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.60	
07 22 16 00-0073 SF 4.5" Thick, R24.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.93	
07 22 16 00-0074 Cold Adhesive Applied, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation (07 22 16 00-0002)		
<i>Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.</i>		
07 22 16 00-0075 SF 2.5" Thick, R5.7, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.11	
07 22 16 00-0076 SF 3" Thick, R8.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.55	
07 22 16 00-0077 SF 3.5" Thick, R11.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.09	
07 22 16 00-0078 SF 4" Thick, R14.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.44	
07 22 16 00-0079 SF 4.5" Thick, R17.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.89	
07 22 16 00-0080 SF 5" Thick, R20.5, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	7.37	
07 22 16 00-0081 SF 5.5" Thick, R23.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	8.24	
07 22 16 00-0082 Hot-Mopped Rigid Board Roofing Insulation (07 22 16 00-0001)		
07 22 16 00-0083 Hot-Mopped, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0084 SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped	1.96	
07 22 16 00-0085 SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped	2.24	
07 22 16 00-0086 SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped	2.52	
07 22 16 00-0087 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped	3.03	
07 22 16 00-0088 SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped	3.55	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0089 Hot-Mopped, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0090 SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Hot-Mopped	2.38	
07 22 16 00-0091 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Hot-Mopped	2.44	
07 22 16 00-0092 Hot-Mopped, Perlite, Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0093 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Hot-Mopped	1.85	
07 22 16 00-0094 SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Hot-Mopped	1.99	
07 22 16 00-0095 SF 1" Thick, R2.78, Perlite, Roof Board Insulation, Hot-Mopped	2.17	
07 22 16 00-0096 SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Hot-Mopped	2.61	
07 22 16 00-0097 SF 2" Thick, R5.56, Perlite, Roof Board Insulation, Hot-Mopped	2.90	
07 22 16 00-0098 Hot-Mopped, Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0099 SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped	2.41	
07 22 16 00-0100 SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped	3.11	
07 22 16 00-0101 SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped	3.95	
07 22 16 00-0102 Hot-Mopped, Foam Glass (Cellular Glass), Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0103 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped	4.14	
07 22 16 00-0104 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped	4.82	
07 22 16 00-0105 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped	6.18	
07 22 16 00-0106 SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped	11.93	
07 22 16 00-0107 Hot-Mopped, Molded Expanded Polystyrene, Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0108 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	2.01	
07 22 16 00-0109 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	1.88	
07 22 16 00-0110 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	1.93	
07 22 16 00-0111 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	2.20	
07 22 16 00-0112 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	2.87	
07 22 16 00-0113 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	3.55	
07 22 16 00-0114 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	4.20	
07 22 16 00-0115 SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	4.87	
07 22 16 00-0116 SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	5.54	
07 22 16 00-0117 Hot-Mopped, Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0082)		
Note: 15 PSI compressive strength.		
07 22 16 00-0118 SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	2.82	
For 25 PSI Compressive Strength, Add	0.26	
For 40 PSI Compressive Strength, Add	0.62	
For 60 PSI Compressive Strength, Add	1.01	
For 115 PSI Compressive Strength, Add	4.33	
07 22 16 00-0119 SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	2.35	
For 25 PSI Compressive Strength, Add	0.19	
For 40 PSI Compressive Strength, Add	0.44	
For 60 PSI Compressive Strength, Add	0.73	
For 115 PSI Compressive Strength, Add	3.10	
07 22 16 00-0120 SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	3.75	
For 25 PSI Compressive Strength, Add	0.41	
For 40 PSI Compressive Strength, Add	0.97	
For 60 PSI Compressive Strength, Add	1.54	
For 100 PSI Compressive Strength, Add	1.98	
For 115 PSI Compressive Strength, Add	6.70	
07 22 16 00-0121 SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	3.37	
For 25 PSI Compressive Strength, Add	0.32	
For 40 PSI Compressive Strength, Add	0.77	
For 60 PSI Compressive Strength, Add	1.24	
For 115 PSI Compressive Strength, Add	5.33	
07 22 16 00-0122 SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	16.27	
For 25 PSI Compressive Strength, Add	0.65	
For 40 PSI Compressive Strength, Add	1.54	
For 60 PSI Compressive Strength, Add	2.97	
For 100 PSI Compressive Strength, Add	3.66	
For 115 PSI Compressive Strength, Add	11.66	
07 22 16 00-0123 SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	4.15	
For 25 PSI Compressive Strength, Add	0.46	
For 40 PSI Compressive Strength, Add	1.10	
For 60 PSI Compressive Strength, Add	1.74	
For 115 PSI Compressive Strength, Add	7.55	
07 22 16 00-0124 SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	4.62	
For 25 PSI Compressive Strength, Add	0.53	
For 40 PSI Compressive Strength, Add	1.27	
For 60 PSI Compressive Strength, Add	2.00	
For 115 PSI Compressive Strength, Add	8.69	
07 22 16 00-0125 Hot-Mopped, Polyisocyanurate Board Roofing Insulation (07 22 16 00-0082)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0126 SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	2.50 0.36 0.13	
07 22 16 00-0127 SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	2.61 0.36 0.14	
07 22 16 00-0128 SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	2.77 0.36 0.16	
07 22 16 00-0129 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	3.22 0.36 0.20	
07 22 16 00-0130 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	3.68 0.36 0.24	
07 22 16 00-0131 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	4.11 0.36 0.29	
07 22 16 00-0132 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	4.47 0.36 0.33	
07 22 16 00-0133 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	5.02 0.36 0.37	
07 22 16 00-0134 Hot-Mopped, Gypsum-Fiber, Roof Board Insulation (USG Securock) (07 22 16 00-0082)		
07 22 16 00-0135 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	2.73	
07 22 16 00-0136 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	2.91	
07 22 16 00-0137 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	3.03	
07 22 16 00-0138 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	3.09	
07 22 16 00-0139 Hot-Mopped, Glass-Mat, Roof Board Insulation (USG Securock) (07 22 16 00-0082)		
07 22 16 00-0140 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped	2.66	
07 22 16 00-0141 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped	2.94	
07 22 16 00-0142 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped	3.00	
07 22 16 00-0143 Mechanically Fastened Rigid Board Roofing Insulation (07 22 16 00-0001)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0144 Mechanically Fastened, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0143)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0145 SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened..... <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	1.87 1.51 1.86 0.56 2.23 2.19 0.83 3.16 3.28	
07 22 16 00-0146 SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened..... <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	2.15 1.51 1.86 0.56 2.26 2.19 0.83 3.19 3.28	
07 22 16 00-0147 SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened..... <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	2.42 1.51 1.86 0.56 2.28 2.19 0.83 3.21 3.28	
07 22 16 00-0148 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened..... <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i> <i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i> <i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	2.98 1.56 1.86 0.69 1.95 2.19 1.03 2.92 3.28	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0149 SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened.....	3.47	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.82	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.92	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.31	
07 22 16 00-0150 Mechanically Fastened, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation (07 22 16 00-0143)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0151 SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Mechanically Fastened	2.28	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.28	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.21	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0152 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Mechanically Fastened	2.34	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.28	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.21	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0153 Mechanically Fastened, Perlite, Roof Board Insulation (07 22 16 00-0143)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0154 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Mechanically Fastened	1.77	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.18	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.11	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0155 SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Mechanically Fastened	1.93	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.12	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0156 SF 1" Thick, R2.78, Perlite, Roof Board Insulation, Mechanically Fastened	2.10	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.12	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0157 SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Mechanically Fastened	2.60	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.92	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0158 SF 2" Thick, R5.56, Perlite, Roof Board Insulation, Mechanically Fastened	2.88	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.82	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.92	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.31	
07 22 16 00-0159 Mechanically Fastened, Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0143)		
Note: Mechanically fastened to wood or steel.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0160 SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....	2.34	
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.12	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0161 SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....	3.10	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.82	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.92	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.31	
07 22 16 00-0162 SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....	3.99	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.88	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.43	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.38	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.46	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.51	
07 22 16 00-0163 Mechanically Fastened, Foam Glass (Cellular Glass), Roof Board Insulation		
<small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0164 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened	4.14	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.92	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0165 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened.....	4.81	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.82	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.92	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.31	
07 22 16 00-0166 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened	6.22	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.88	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.43	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.38	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.46	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.51	
07 22 16 00-0167 SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened	12.06	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.79	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.99	
07 22 16 00-0168 Mechanically Fastened, Molded Expanded Polystyrene, Roof Board Insulation		
<small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0169 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	1.92	
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.14	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0170 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	1.80	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.14	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0171 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	1.96	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.14	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0172 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	2.13	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.22	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.15	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0173 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	2.86	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.82	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.92	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.31	
07 22 16 00-0174 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	3.57	
For Mechanically Fastened To Concrete, Add	1.60	
For Mechanically Fastened To Gypsum, Add	1.88	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.79	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.45	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.38	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.18	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.48	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.51	
07 22 16 00-0175 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	4.34	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Gypsum, Add	1.91	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.92	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.45	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.38	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.69	
07 22 16 00-0176 SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	5.12	
For Mechanically Fastened To Concrete, Add	1.69	
For Mechanically Fastened To Gypsum, Add	1.89	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.36	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.98	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.63	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.56	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.28	
07 22 16 00-0177 SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	6.45	
For Mechanically Fastened To Concrete, Add	1.74	
For Mechanically Fastened To Gypsum, Add	1.59	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.62	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.91	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	3.18	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.44	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.37	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.55	

07 22 16 00-0178 Mechanically Fastened, Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0143)
 Note: 15 PSI compressive strength. Mechanically fastened to wood or steel.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0179 SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	2.76	
For 25 PSI Compressive Strength, Add	0.27	
For 40 PSI Compressive Strength, Add	0.64	
For 60 PSI Compressive Strength, Add	1.03	
For 115 PSI Compressive Strength, Add	4.43	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.12	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0180 SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	2.28	
For 25 PSI Compressive Strength, Add	0.19	
For 40 PSI Compressive Strength, Add	0.46	
For 60 PSI Compressive Strength, Add	0.75	
For 115 PSI Compressive Strength, Add	3.19	
For Mechanically Fastened To Concrete, Add	1.51	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.56	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.83	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.12	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0181 SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	3.73	
For 25 PSI Compressive Strength, Add	0.42	
For 40 PSI Compressive Strength, Add	1.01	
For 60 PSI Compressive Strength, Add	1.59	
For 100 PSI Compressive Strength, Add	2.04	
For 115 PSI Compressive Strength, Add	6.92	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.92	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0182 SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	3.23	
For 25 PSI Compressive Strength, Add	0.34	
For 40 PSI Compressive Strength, Add	0.81	
For 60 PSI Compressive Strength, Add	1.29	
For 115 PSI Compressive Strength, Add	5.56	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.82	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.92	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.31	
07 22 16 00-0183 SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	5.33	
For 25 PSI Compressive Strength, Add	0.68	
For 40 PSI Compressive Strength, Add	1.60	
For 60 PSI Compressive Strength, Add	2.50	
For 100 PSI Compressive Strength, Add	3.22	
For 115 PSI Compressive Strength, Add	10.96	
For Mechanically Fastened To Concrete, Add	1.60	
For Mechanically Fastened To Gypsum, Add	1.85	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.79	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.42	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.30	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.18	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.45	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.45	
07 22 16 00-0184 SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	4.19	
For 25 PSI Compressive Strength, Add	0.49	
For 40 PSI Compressive Strength, Add	1.16	
For 60 PSI Compressive Strength, Add	1.83	
For 115 PSI Compressive Strength, Add	7.95	
For Mechanically Fastened To Concrete, Add	1.60	
For Mechanically Fastened To Gypsum, Add	1.88	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.79	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.43	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.38	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.18	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.46	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.51	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 22 16 00-0185	SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened.....	4.75
	<i>For 25 PSI Compressive Strength, Add</i>	0.57
	<i>For 40 PSI Compressive Strength, Add</i>	1.36
	<i>For 60 PSI Compressive Strength, Add</i>	2.14
	<i>For 115 PSI Compressive Strength, Add</i>	9.34
	<i>For Mechanically Fastened To Concrete, Add</i>	1.65
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.91
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.45
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.69

07 22 16 00-0186 Mechanically Fastened, Polyisocyanurate Board Roofing Insulation (07 22 16 00-0143)

Note: Mechanically fastened to wood or steel.

07 22 16 00-0187	SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.44
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.14
	<i>For Mechanically Fastened To Concrete, Add</i>	1.51
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.86
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.19
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.12
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28
07 22 16 00-0188	SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.54
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.15
	<i>For Mechanically Fastened To Concrete, Add</i>	1.51
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.86
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.19
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.12
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28
07 22 16 00-0189	SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.77
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.17
	<i>For Mechanically Fastened To Concrete, Add</i>	1.56
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.86
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.92
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28
07 22 16 00-0190	SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	3.20
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.21
	<i>For Mechanically Fastened To Concrete, Add</i>	1.56
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.82
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.92
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.31
07 22 16 00-0191	SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	3.70
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.26
	<i>For Mechanically Fastened To Concrete, Add</i>	1.60
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.85
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.42
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.30
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.45
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.45
07 22 16 00-0192	SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	4.15
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.30
	<i>For Mechanically Fastened To Concrete, Add</i>	1.60
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.88
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.43
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.38
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.46
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0193 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	4.73	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.36	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.79	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.99	
07 22 16 00-0194 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	5.14	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.40	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.91	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.45	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.69	
07 22 16 00-0195 Mechanically Fastened, High-Density Polyisocyanurate Cover Board And Roofing Insulation <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0196 SF 1/2" Thick, R2.5, High-Density Polyisocyanurate Cover Board And Roofing Insulation, Mechanically Fastened	2.80	
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.23	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.16	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0197 Mechanically Fastened, Gypsum-Fiber, Roof Board Insulation (USG Securock) <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0198 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened	2.63	
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.23	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.16	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0199 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened	2.81	
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.23	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.16	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0200 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened	2.93	
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.23	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.16	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0201 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened	3.00	
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.23	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.16	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0202 Mechanically Fastened, Glass-Mat, Roof Board Insulation (USG Securock) <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0203	SF	1/4"	Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....	2.57	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.23	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.16	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0204	SF	1/2"	Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....	2.84	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.23	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.16	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0205	SF	5/8"	Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....	2.90	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.23	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.16	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0206			Mechanically Fastened, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation <small>(07 22 16 00-0143)</small>		
			Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer. Mechanically fastened to wood or steel.		
07 22 16 00-0207	SF	1.5"	Thick, R6.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.77	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.92	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.31	
07 22 16 00-0208	SF	2"	Thick, R9.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.02	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.82	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.92	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.31	
07 22 16 00-0209	SF	2.5"	Thick, R12.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.43	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.85	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.30	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.62	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.45	
07 22 16 00-0210	SF	3"	Thick, R15.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.65	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.88	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.60	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.38	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.63	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.51	
07 22 16 00-0211	SF	3.5"	Thick, R18.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	6.26	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.97	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0212 SF 4" Thick, R21.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened	6.48	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.91	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.45	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.69	
07 22 16 00-0213 SF 4.5" Thick, R24.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened	6.94	
<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.89	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.17	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.47	
07 22 16 00-0214 Mechanically Fastened, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation (07 22 16 00-0143)		
<i>Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer. Mechanically fastened to wood or steel.</i>		
07 22 16 00-0215 SF 2.5" Thick, R5.7, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened	4.88	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.85	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.58	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.30	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.61	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.45	
07 22 16 00-0216 SF 3" Thick, R8.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened	5.33	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.88	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.38	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.62	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.51	
07 22 16 00-0217 SF 3.5" Thick, R11.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened	5.97	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.95	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.15	
07 22 16 00-0218 SF 4" Thick, R14.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened	6.32	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.91	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.45	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.69	
07 22 16 00-0219 SF 4.5" Thick, R17.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened	6.89	
<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.89	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.12	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.42	
07 22 16 00-0220 SF 5" Thick, R20.5, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened	7.37	
<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.89	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.13	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.43	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0221	SF		5.5" Thick, R23.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	8.74	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.59	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.62	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.36	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.44	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.37	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.73	
07 22 16 00-0222			Rigid Board Tapered Roofing Insulation (07 22 16) Note: Includes tapered board and filler board required to maintain slope starting at 1/2" minimum thickness. Excludes base layer of board, if required. Average thickness and average R-value of tapered system excludes thickness and R-value of base layer insulation and/or cover board. See CSI section 07 22 16 00-0466 for demolition of insulation board.		
07 22 16 00-0223			Cold Adhesive Applied Rigid Board Tapered Roofing Insulation (07 22 16 00-0222)		
07 22 16 00-0224			Cold Adhesive Applied, Tapered Polyisocyanurate Board (07 22 16 00-0223) Note: Includes polyurethane adhesive.		
07 22 16 00-0225			Cold Adhesive Applied, 1/8" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0224)		
07 22 16 00-0226	SF		2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	4.91	
			<i>For 25 PSI Compressive Strength, Add</i>	0.33	
07 22 16 00-0227	SF		2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	6.80	
			<i>For 25 PSI Compressive Strength, Add</i>	0.39	
07 22 16 00-0228	SF		3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	7.38	
			<i>For 25 PSI Compressive Strength, Add</i>	0.45	
07 22 16 00-0229	SF		3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	7.96	
			<i>For 25 PSI Compressive Strength, Add</i>	0.50	
07 22 16 00-0230	SF		4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	8.55	
			<i>For 25 PSI Compressive Strength, Add</i>	0.56	
07 22 16 00-0231	SF		4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	10.45	
			<i>For 25 PSI Compressive Strength, Add</i>	0.62	
07 22 16 00-0232	SF		5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	11.03	
			<i>For 25 PSI Compressive Strength, Add</i>	0.68	
07 22 16 00-0233	SF		5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	11.62	
			<i>For 25 PSI Compressive Strength, Add</i>	0.74	
07 22 16 00-0234	SF		6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	12.20	
			<i>For 25 PSI Compressive Strength, Add</i>	0.80	
07 22 16 00-0235	SF		6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	14.08	
			<i>For 25 PSI Compressive Strength, Add</i>	0.86	
07 22 16 00-0236			Cold Adhesive Applied, 1/4" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0224)		
07 22 16 00-0237	SF		2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	4.61	
			<i>For 25 PSI Compressive Strength, Add</i>	0.30	
07 22 16 00-0238	SF		3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	7.09	
			<i>For 25 PSI Compressive Strength, Add</i>	0.42	
07 22 16 00-0239	SF		4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	8.25	
			<i>For 25 PSI Compressive Strength, Add</i>	0.53	
07 22 16 00-0240	SF		5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	10.74	
			<i>For 25 PSI Compressive Strength, Add</i>	0.65	
07 22 16 00-0241	SF		6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	11.91	
			<i>For 25 PSI Compressive Strength, Add</i>	0.77	
07 22 16 00-0242	SF		7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	14.37	
			<i>For 25 PSI Compressive Strength, Add</i>	0.88	
07 22 16 00-0243			Cold Adhesive Applied, 1/2" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0224)		
07 22 16 00-0244	SF		3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	7.67	
			<i>For 25 PSI Compressive Strength, Add</i>	0.47	
07 22 16 00-0245	SF		5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	11.33	
			<i>For 25 PSI Compressive Strength, Add</i>	0.71	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0246	SF	7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	14.96	
		<i>For 25 PSI Compressive Strength, Add</i>	0.94	
07 22 16 00-0247	SF	9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	18.61	
		<i>For 25 PSI Compressive Strength, Add</i>	1.18	
07 22 16 00-0248		Cold Adhesive Applied, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0223)</small>		
		<i>Note: Includes polyurethane adhesive.</i>		
07 22 16 00-0249		Cold Adhesive Applied, 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0248)</small>		
07 22 16 00-0250	SF	2.25" Average Thickness (10.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	4.25	
07 22 16 00-0251	SF	2.75" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	6.16	
07 22 16 00-0252	SF	3.25" Average Thickness (14.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	6.59	
07 22 16 00-0253	SF	3.75" Average Thickness (16.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	7.03	
07 22 16 00-0254	SF	4.25" Average Thickness (19.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	7.46	
07 22 16 00-0255	SF	4.75" Average Thickness (21.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	9.38	
07 22 16 00-0256	SF	5.25" Average Thickness (23.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	9.81	
07 22 16 00-0257	SF	5.75" Average Thickness (25.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	10.25	
07 22 16 00-0258	SF	6.25" Average Thickness (28.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	10.68	
07 22 16 00-0259	SF	6.75" Average Thickness (30.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	12.58	
07 22 16 00-0260		Cold Adhesive Applied, 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0248)</small>		
07 22 16 00-0261	SF	2" Average Thickness (9 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	4.03	
07 22 16 00-0262	SF	3" Average Thickness (13.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	6.37	
07 22 16 00-0263	SF	4" Average Thickness (18 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	7.25	
07 22 16 00-0264	SF	5" Average Thickness (22.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	9.59	
07 22 16 00-0265	SF	6" Average Thickness (27 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	10.47	
07 22 16 00-0266	SF	7" Average Thickness (31.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	12.80	
07 22 16 00-0267		Cold Adhesive Applied, 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0248)</small>		
07 22 16 00-0268	SF	3.5" Average Thickness (15.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	6.81	
07 22 16 00-0269	SF	5.5" Average Thickness (24.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	10.03	
07 22 16 00-0270	SF	7.5" Average Thickness (33.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	13.23	
07 22 16 00-0271	SF	9.5" Average Thickness (42.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	16.89	
07 22 16 00-0272		Cold Adhesive Applied, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0223)</small>		
		<i>Note: Includes polyurethane adhesive.</i>		
07 22 16 00-0273		Cold Adhesive Applied, 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0272)</small>		
07 22 16 00-0274	SF	2.25" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	4.77	
07 22 16 00-0275	SF	2.75" Average Thickness (15.125 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	6.67	
07 22 16 00-0276	SF	3.25" Average Thickness (17.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	7.23	
07 22 16 00-0277	SF	3.75" Average Thickness (20.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	7.78	
07 22 16 00-0278	SF	4.25" Average Thickness (23.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	8.33	
07 22 16 00-0279	SF	4.75" Average Thickness (26.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	10.24	
07 22 16 00-0280	SF	5.25" Average Thickness (28.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	10.79	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0281 SF 5.75" Average Thickness (31.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	11.34	
07 22 16 00-0282 SF 6.25" Average Thickness (34.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	11.89	
07 22 16 00-0283 SF 6.75" Average Thickness (37.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	13.78	
07 22 16 00-0284 Cold Adhesive Applied, 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0272)		
07 22 16 00-0285 SF 2" Average Thickness (11 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	4.50	
07 22 16 00-0286 SF 3" Average Thickness (16.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	6.95	
07 22 16 00-0287 SF 4" Average Thickness (22 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	8.05	
07 22 16 00-0288 SF 5" Average Thickness (27.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	10.51	
07 22 16 00-0289 SF 6" Average Thickness (33 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	11.62	
07 22 16 00-0290 SF 7" Average Thickness (38.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	14.06	
07 22 16 00-0291 Cold Adhesive Applied, 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0272)		
07 22 16 00-0292 SF 3.5" Average Thickness (19.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	7.50	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.88	
07 22 16 00-0293 SF 5.5" Average Thickness (30.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	11.07	
07 22 16 00-0294 SF 7.5" Average Thickness (41.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	14.61	
07 22 16 00-0295 SF 9.5" Average Thickness (52.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	18.18	
07 22 16 00-0296 Cold Adhesive Applied, Tapered Perlite Board (07 22 16 00-0223)		
Note: Includes polyurethane adhesive.		
07 22 16 00-0297 Cold Adhesive Applied, 1/8" Slope, Tapered Perlite Board (07 22 16 00-0296)		
07 22 16 00-0298 SF 2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	5.67	
07 22 16 00-0299 SF 2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	6.84	
07 22 16 00-0300 SF 3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	7.67	
07 22 16 00-0301 SF 3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	8.16	
07 22 16 00-0302 SF 4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	8.98	
07 22 16 00-0303 SF 4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	10.15	
07 22 16 00-0304 SF 5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	10.97	
07 22 16 00-0305 SF 5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	11.46	
07 22 16 00-0306 SF 6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	12.29	
07 22 16 00-0307 SF 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	13.46	
07 22 16 00-0308 Cold Adhesive Applied, 1/4" Slope, Tapered Perlite Board (07 22 16 00-0296)		
07 22 16 00-0309 SF 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	5.25	
07 22 16 00-0310 SF 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	7.26	
07 22 16 00-0311 SF 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	8.57	
07 22 16 00-0312 SF 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	10.56	
07 22 16 00-0313 SF 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	11.88	
07 22 16 00-0314 SF 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	13.87	
07 22 16 00-0315 Cold Adhesive Applied, 1/2" Slope, Tapered Perlite Board (07 22 16 00-0296)		
07 22 16 00-0316 SF 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	8.08	
07 22 16 00-0317 SF 5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	11.39	
07 22 16 00-0318 SF 7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	14.69	
07 22 16 00-0319 SF 9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	18.00	
07 22 16 00-0320 Hot-Mopped Rigid Board Tapered Roofing Insulation (07 22 16 00-0222)		
07 22 16 00-0321 Hot-Mopped, Tapered Polyisocyanurate Board (07 22 16 00-0320)		
07 22 16 00-0322 Hot-Mopped, 1/8" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0321)		
07 22 16 00-0323 SF 2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	4.53	
<i>For 25 PSI Compressive Strength, Add</i>	0.29	
07 22 16 00-0324 SF 2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	6.39	
<i>For 25 PSI Compressive Strength, Add</i>	0.32	
07 22 16 00-0325 SF 3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	6.98	
<i>For 25 PSI Compressive Strength, Add</i>	0.38	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0326	SF			3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	7.26 0.43	
07 22 16 00-0327	SF			4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	8.14 0.49	
07 22 16 00-0328	SF			4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	9.84 0.52	
07 22 16 00-0329	SF			5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	10.43 0.58	
07 22 16 00-0330	SF			5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	11.01 0.64	
07 22 16 00-0331	SF			6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	11.59 0.69	
07 22 16 00-0332	SF			6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	13.27 0.72	
07 22 16 00-0333				Hot-Mopped, 1/4" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0321)		
07 22 16 00-0334	SF			2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	4.41 0.26	
07 22 16 00-0335	SF			3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	6.68 0.35	
07 22 16 00-0336	SF			4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	7.85 0.46	
07 22 16 00-0337	SF			5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	10.14 0.55	
07 22 16 00-0338	SF			6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	11.30 0.66	
07 22 16 00-0339	SF			7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	13.57 0.75	
07 22 16 00-0340				Hot-Mopped, 1/2" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0321)		
07 22 16 00-0341	SF			3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	7.27 0.40	
07 22 16 00-0342	SF			5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	10.72 0.61	
07 22 16 00-0343	SF			7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	14.15 0.81	
07 22 16 00-0344	SF			9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	17.60 1.01	
07 22 16 00-0345				Hot-Mopped, Tapered Perlite Board (07 22 16 00-0320)		
07 22 16 00-0346				Hot-Mopped, 1/8" Slope, Tapered Perlite Board (07 22 16 00-0345)		
07 22 16 00-0347	SF			2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	4.84	
07 22 16 00-0348	SF			2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	6.44	
07 22 16 00-0349	SF			3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	7.26	
07 22 16 00-0350	SF			3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	7.13	
07 22 16 00-0351	SF			4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	7.95	
07 22 16 00-0352	SF			4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	9.54	
07 22 16 00-0353	SF			5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	10.37	
07 22 16 00-0354	SF			5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	10.23	
07 22 16 00-0355	SF			6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	11.06	
07 22 16 00-0356	SF			6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	12.65	
07 22 16 00-0357				Hot-Mopped, 1/4" Slope, Tapered Perlite Board (07 22 16 00-0345)		
07 22 16 00-0358	SF			2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	4.42	
07 22 16 00-0359	SF			3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	6.85	
07 22 16 00-0360	SF			4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	7.54	
07 22 16 00-0361	SF			5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	9.95	
07 22 16 00-0362	SF			6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	10.65	
07 22 16 00-0363	SF			7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	13.06	
07 22 16 00-0364				Hot-Mopped, 1/2" Slope, Tapered Perlite Board (07 22 16 00-0345)		
07 22 16 00-0365	SF			3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	7.67	
07 22 16 00-0366	SF			5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	10.78	
07 22 16 00-0367	SF			7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	68.66	
07 22 16 00-0368	SF			9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	16.99	
07 22 16 00-0369				Mechanically Fastened Tapered Roofing Insulation (07 22 16 00-0222) Note: Mechanically fastened to wood or steel. Includes tapered board and filler board required to maintain slope starting at 1/2" minimum thickness. Excludes base layer of board, if required. Average thickness and average R-value of tapered system excludes thickness and R-value of base layer insulation and/or coverboard.		
07 22 16 00-0370				Mechanically Fastened, Tapered Polyisocyanurate Board (07 22 16 00-0369) Note: Mechanically fastened to wood or steel.		
07 22 16 00-0371				Mechanically Fastened, 1/8" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0370)		

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0372	SF		2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	4.62	
			For 25 PSI Compressive Strength, Add	0.30	
			For Mechanically Fastened To Concrete, Add	1.56	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.80	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.19	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.92	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0373	SF		2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	5.96	
			For 25 PSI Compressive Strength, Add	0.30	
			For Mechanically Fastened To Concrete, Add	1.60	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.85	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.79	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.30	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.18	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.45	
07 22 16 00-0374	SF		3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	6.54	
			For 25 PSI Compressive Strength, Add	0.36	
			For Mechanically Fastened To Concrete, Add	1.60	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.88	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.79	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.33	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.18	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.51	
07 22 16 00-0375	SF		3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	7.22	
			For 25 PSI Compressive Strength, Add	0.43	
			For Mechanically Fastened To Concrete, Add	1.65	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.86	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.92	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.41	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.38	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.61	
07 22 16 00-0376	SF		4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	7.80	
			For 25 PSI Compressive Strength, Add	0.49	
			For Mechanically Fastened To Concrete, Add	1.65	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.91	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.92	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.45	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.38	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.69	
07 22 16 00-0377	SF		4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	9.21	
			For 25 PSI Compressive Strength, Add	0.50	
			For Mechanically Fastened To Concrete, Add	1.69	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.89	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.09	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.36	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.56	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.63	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.56	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.86	
07 22 16 00-0378	SF		5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	9.79	
			For 25 PSI Compressive Strength, Add	0.56	
			For Mechanically Fastened To Concrete, Add	1.69	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.89	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.09	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.36	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.56	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.63	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.56	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0379 SF 5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	10.87	
<i>For 25 PSI Compressive Strength, Add</i>	0.66	
<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.59	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.62	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.44	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.37	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.12	
07 22 16 00-0380 SF 6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	11.45	
<i>For 25 PSI Compressive Strength, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.59	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.62	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.44	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.37	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.12	
07 22 16 00-0381 SF 6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	12.59	
<i>For 25 PSI Compressive Strength, Add</i>	0.71	
<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.95	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.79	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.00	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.25	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.18	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.50	
07 22 16 00-0382 Mechanically Fastened, 1/4" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0370)</small>		
07 22 16 00-0383 SF 2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	4.33	
<i>For 25 PSI Compressive Strength, Add</i>	0.27	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.80	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0384 SF 3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	6.25	
<i>For 25 PSI Compressive Strength, Add</i>	0.33	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.85	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.30	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.45	
07 22 16 00-0385 SF 4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	7.51	
<i>For 25 PSI Compressive Strength, Add</i>	0.46	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.41	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.61	
07 22 16 00-0386 SF 5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	9.50	
<i>For 25 PSI Compressive Strength, Add</i>	0.53	
<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.89	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.86	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0387 SF 6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	11.16	
For 25 PSI Compressive Strength, Add	0.69	
For Mechanically Fastened To Concrete, Add	1.74	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.59	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.62	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.91	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.75	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.44	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.37	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.12	
07 22 16 00-0388 SF 7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	12.88	
For 25 PSI Compressive Strength, Add	0.74	
For Mechanically Fastened To Concrete, Add	1.74	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.95	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.79	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.00	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.25	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.18	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.50	
07 22 16 00-0389 Mechanically Fastened, 1/2" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0370)		
07 22 16 00-0390 SF 3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	6.83	
For 25 PSI Compressive Strength, Add	0.39	
For Mechanically Fastened To Concrete, Add	1.60	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.88	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.79	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.33	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.18	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.51	
07 22 16 00-0391 SF 5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	9.83	
For 25 PSI Compressive Strength, Add	0.56	
For Mechanically Fastened To Concrete, Add	1.69	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.89	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.36	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.63	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.56	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.86	
07 22 16 00-0392 SF 7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	13.47	
For 25 PSI Compressive Strength, Add	0.79	
For Mechanically Fastened To Concrete, Add	1.74	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.95	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.79	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.00	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.25	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.18	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.50	
07 22 16 00-0393 SF 9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	17.02	
For 25 PSI Compressive Strength, Add	1.02	
For Mechanically Fastened To Concrete, Add	2.17	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.74	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	3.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	5.60	
07 22 16 00-0394 Mechanically Fastened, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0369)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0395 Mechanically Fastened, 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0394)		
07 22 16 00-0396 SF 2.25" Average Thickness (10.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	3.97	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.80	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.92	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0397 SF 2.75" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.31	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.85	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.30	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.45	
07 22 16 00-0398 SF 3.25" Average Thickness (14.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.75	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.88	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.33	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.51	
07 22 16 00-0399 SF 3.75" Average Thickness (16.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	6.29	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.41	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.61	
07 22 16 00-0400 SF 4.25" Average Thickness (19.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	6.72	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.91	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.45	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.69	
07 22 16 00-0401 SF 4.75" Average Thickness (21.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	8.13	
<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.89	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.86	
07 22 16 00-0402 SF 5.25" Average Thickness (23.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	8.57	
<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.89	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.86	
07 22 16 00-0403 SF 5.75" Average Thickness (25.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	9.51	
<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.59	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.62	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.44	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.37	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.12	
07 22 16 00-0404 SF 6.25" Average Thickness (28.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	9.94	
<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.59	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.62	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.44	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.37	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.12	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0405	SF	6.75" Average Thickness (30.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	11.09	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.95	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.50	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.79	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.00	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.25	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.18	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.50	
07 22 16 00-0406		Mechanically Fastened, 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0394)		
07 22 16 00-0407	SF	2" Average Thickness (9 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	3.75	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.80	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.92	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0408	SF	3" Average Thickness (13.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.53	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.85	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.30	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.45	
07 22 16 00-0409	SF	4" Average Thickness (18 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	6.50	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.86	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.41	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.61	
07 22 16 00-0410	SF	5" Average Thickness (22.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	8.35	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.89	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.86	
07 22 16 00-0411	SF	6" Average Thickness (27 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	9.72	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.59	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.62	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.75	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.44	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.37	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.12	
07 22 16 00-0412	SF	7" Average Thickness (31.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	11.31	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.95	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.50	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.79	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.00	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.25	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.18	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.50	
07 22 16 00-0413		Mechanically Fastened, 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0394)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0414 SF 3.5" Average Thickness (15.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.97	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.88	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.33	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.51	
07 22 16 00-0415 SF 5.5" Average Thickness (24.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	8.79	
<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.89	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.86	
07 22 16 00-0416 SF 7.5" Average Thickness (33.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	11.75	
<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.95	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.79	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.00	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.25	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.18	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.50	
07 22 16 00-0417 SF 9.5" Average Thickness (42.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	15.30	
<i>For Mechanically Fastened To Concrete, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.74	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	3.09	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.60	
07 22 16 00-0418 Mechanically Fastened, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0369)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0419 Mechanically Fastened, 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0418)</small>		
07 22 16 00-0420 SF 2.25" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	4.49	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.80	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0421 SF 2.75" Average Thickness (15.125 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	5.83	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.85	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.30	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.45	
07 22 16 00-0422 SF 3.25" Average Thickness (17.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	7.67	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.88	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.33	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.51	
07 22 16 00-0423 SF 3.75" Average Thickness (20.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	7.03	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.41	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.61	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0424	SF	4.25" Average Thickness (23.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	7.59	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.91	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.45	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.69	
07 22 16 00-0425	SF	4.75" Average Thickness (26.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	8.99	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.89	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.86	
07 22 16 00-0426	SF	5.25" Average Thickness (28.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	9.55	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.89	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.86	
07 22 16 00-0427	SF	5.75" Average Thickness (31.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	10.60	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.59	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.62	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.75	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.44	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.37	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.12	
07 22 16 00-0428	SF	6.25" Average Thickness (34.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	11.15	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.59	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.62	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.75	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.44	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.37	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.12	
07 22 16 00-0429	SF	6.75" Average Thickness (37.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	12.29	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.95	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.50	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.79	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.00	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.25	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.18	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.50	
07 22 16 00-0430		Mechanically Fastened, 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0418)</small>		
07 22 16 00-0431	SF	2" Average Thickness (11 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	4.22	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.80	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.92	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0432	SF	3" Average Thickness (16.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	6.10	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.85	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.30	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0433 SF 4" Average Thickness (22 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	7.31	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.41	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.61	
07 22 16 00-0434 SF 5" Average Thickness (27.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	9.27	
<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.89	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.86	
07 22 16 00-0435 SF 6" Average Thickness (33 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	10.88	
<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.59	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.62	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.44	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.37	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.12	
07 22 16 00-0436 SF 7" Average Thickness (38.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	12.57	
<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.95	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.79	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.00	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.25	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.18	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.50	
07 22 16 00-0437 Mechanically Fastened, 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0418)</small>		
07 22 16 00-0438 SF 3.5" Average Thickness (19.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	6.66	
<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.88	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.33	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.51	
07 22 16 00-0439 SF 5.5" Average Thickness (30.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	9.82	
<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.89	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.86	
07 22 16 00-0440 SF 7.5" Average Thickness (41.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	13.12	
<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.95	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.79	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.00	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.25	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.18	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.50	
07 22 16 00-0441 SF 9.5" Average Thickness (52.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	16.42	
<i>For Mechanically Fastened To Concrete, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.74	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	3.09	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.60	
07 22 16 00-0442 Mechanically Fastened, Tapered Perlite Board <small>(07 22 16 00-0369)</small>		
Note: Mechanically fastened to wood or steel.		

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0443			Mechanically Fastened, 1/8" Slope, Tapered Perlite Board <small>(07 22 16 00-0442)</small>		
07 22 16 00-0444	SF		2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	4.76	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.80	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.69	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.95	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.03	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.92	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 22 16 00-0445	SF		2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.00	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.85	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.30	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.45	
07 22 16 00-0446	SF		3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.82	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.60	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.88	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.79	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.33	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.18	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.51	
07 22 16 00-0447	SF		3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.79	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.86	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.41	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.61	
07 22 16 00-0448	SF		4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	7.62	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.91	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.92	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.45	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.38	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.69	
07 22 16 00-0449	SF		4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	8.91	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.89	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.86	
07 22 16 00-0450	SF		5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	9.73	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.69	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.89	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.09	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.36	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.63	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.56	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.86	
07 22 16 00-0451	SF		5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	10.10	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.59	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.62	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.75	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.44	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.37	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.12	
07 22 16 00-0452	SF		6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	10.92	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.74	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.59	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.62	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.75	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.44	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.37	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.12	



Thermal And Moisture Protection			07
Thermal Protection			07 20
Roof and Deck Insulation			07 22

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0453 SF 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	11.97	
For Mechanically Fastened To Concrete, Add	1.74	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.95	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.79	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.00	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.25	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.18	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.50	
07 22 16 00-0454 Mechanically Fastened, 1/4" Slope, Tapered Perlite Board <small>(07 22 16 00-0442)</small>		
07 22 16 00-0455 SF 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	4.35	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.80	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.69	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.95	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.19	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.03	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.92	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.28	
07 22 16 00-0456 SF 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.41	
For Mechanically Fastened To Concrete, Add	1.60	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.85	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.79	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.30	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.18	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.45	
07 22 16 00-0457 SF 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	7.20	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.86	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.92	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.41	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.38	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.61	
07 22 16 00-0458 SF 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	9.32	
For Mechanically Fastened To Concrete, Add	1.69	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.89	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.36	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.63	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.56	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.86	
07 22 16 00-0459 SF 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	10.51	
For Mechanically Fastened To Concrete, Add	1.74	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.59	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.62	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.91	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.75	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.44	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.37	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.12	
07 22 16 00-0460 SF 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	12.38	
For Mechanically Fastened To Concrete, Add	1.74	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.95	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.79	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.00	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.25	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.18	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.50	
07 22 16 00-0461 Mechanically Fastened, 1/2" Slope, Tapered Perlite Board <small>(07 22 16 00-0442)</small>		
07 22 16 00-0462 SF 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	7.23	
For Mechanically Fastened To Concrete, Add	1.60	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.88	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.79	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.33	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.18	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.51	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0463 SF 5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	10.14	
For Mechanically Fastened To Concrete, Add	1.69	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.89	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.36	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.63	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.56	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.86	
07 22 16 00-0464 SF 7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	13.20	
For Mechanically Fastened To Concrete, Add	1.74	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.95	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.79	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.00	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.25	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.18	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.50	
07 22 16 00-0465 SF 9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	16.41	
For Mechanically Fastened To Concrete, Add	2.17	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.74	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.00	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	3.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	5.60	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.50	
07 22 16 00-0466 Demolish Rigid Board Roofing Insulation (07 22 16)		
Note: Includes removing any combination of roofing insulation systems and/or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.).		
07 22 16 00-0467 SF Demolish Up To 1/2" Average Thickness, Rigid Board Roofing Insulation	0.60	
07 22 16 00-0468 SF Demolish >1/2" To 1" Average Thickness, Rigid Board Roofing Insulation	0.62	
07 22 16 00-0469 SF Demolish >1" To 2" Average Thickness, Rigid Board Roofing Insulation	0.64	
07 22 16 00-0470 SF Demolish >2" To 3" Average Thickness, Rigid Board Roofing Insulation	0.66	
07 22 16 00-0471 SF Demolish >3" To 4" Average Thickness, Rigid Board Roofing Insulation	0.68	
07 22 16 00-0472 SF Demolish >4" To 5" Average Thickness, Rigid Board Roofing Insulation	0.69	
07 22 16 00-0473 SF Demolish >5" To 6" Average Thickness, Rigid Board Roofing Insulation	0.71	
07 22 16 00-0474 SF Demolish >6" To 7" Average Thickness, Rigid Board Roofing Insulation	0.72	
07 22 16 00-0475 SF Demolish >7" To 8" Average Thickness, Rigid Board Roofing Insulation	0.74	
07 22 16 00-0476 SF Demolish >8" To 9" Average Thickness, Rigid Board Roofing Insulation	0.76	
07 22 16 00-0477 SF Demolish >9" To 10" Average Thickness, Rigid Board Roofing Insulation	0.78	
07 22 16 00-0478 SF Demolish >10" To 11" Average Thickness, Rigid Board Roofing Insulation.....	0.80	
07 22 16 00-0479 SF Demolish >11" To 12" Average Thickness, Rigid Board Roofing Insulation.....	0.81	
07 24 Exterior Insulation and Finish Systems (07 20)		
07 24 13 Polymer-Based Exterior Insulation and Finish System (07 24)		
07 24 13 00-0001 Exterior Insulation Finishing System (EIFS) (07 24 13)		
07 24 13 00-0002 Insulation For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0003 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	3.66	
For Up To 100, Add	0.85	
For >100 To 500, Add	0.43	
For >5,000, Deduct	-0.17	
For Adhesive And Mechanically Fastened To Wood Or Steel, Add	1.46	
For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add	2.18	
07 24 13 00-0004 SF 1-1/2" Thick, R5.78, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	4.01	
For Up To 100, Add	0.87	
For >100 To 500, Add	0.43	
For >5,000, Deduct	-0.17	
For Adhesive And Mechanically Fastened To Wood Or Steel, Add	1.49	
For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add	2.19	
07 24 13 00-0005 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	4.34	
For Up To 100, Add	0.88	
For >100 To 500, Add	0.44	
For >5,000, Deduct	-0.18	
For Adhesive And Mechanically Fastened To Wood Or Steel, Add	1.65	
For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add	2.33	
07 24 13 00-0006 SF 2-1/2" Thick, R9.63, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	4.68	
For Up To 100, Add	0.89	
For >100 To 500, Add	0.44	
For >5,000, Deduct	-0.18	
For Adhesive And Mechanically Fastened To Wood Or Steel, Add	1.73	
For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add	2.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 24 13 00-0007 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	5.02	
<i>For Up To 100, Add</i>	0.90	
<i>For >100 To 500, Add</i>	0.45	
<i>For >5,000, Deduct</i>	-0.18	
<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.73	
<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.45	
07 24 13 00-0008 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	5.67	
<i>For Up To 100, Add</i>	0.91	
<i>For >100 To 500, Add</i>	0.45	
<i>For >5,000, Deduct</i>	-0.18	
<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.94	
<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.63	
07 24 13 00-0009 Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) <small>(07 24 13 00-0001)</small>		
<i>Note: Includes applying a layer of base coat to the insulation board and fully embedding the reinforcing fabric in the wet base coat.</i>		
07 24 13 00-0010 SF 4.3 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit S-Mesh), Embedded In A Layer Of Base Coat.....	5.34	
<i>For Up To 100, Add</i>	1.71	
<i>For >100 To 500, Add</i>	0.85	
<i>For >5,000, Deduct</i>	-0.34	
07 24 13 00-0011 SF 6.0 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit SP-Mesh), Embedded In A Layer Of Base Coat.....	5.91	
<i>For Up To 100, Add</i>	1.71	
<i>For >100 To 500, Add</i>	0.85	
<i>For >5,000, Deduct</i>	-0.34	
07 24 13 00-0012 SF 15.0 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit Panzer® 15), Embedded In A Layer Of Base Coat.....	7.45	
<i>For Up To 100, Add</i>	1.71	
<i>For >100 To 500, Add</i>	0.85	
<i>For >5,000, Deduct</i>	-0.34	
07 24 13 00-0013 SF 20.0 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit Panzer® 20), Embedded In A Layer Of Base Coat.....	7.91	
<i>For Up To 100, Add</i>	1.71	
<i>For >100 To 500, Add</i>	0.85	
<i>For >5,000, Deduct</i>	-0.34	
07 24 13 00-0014 Base Coats For Exterior Insulation Finishing Systems (EIFS) <small>(07 24 13 00-0001)</small>		
07 24 13 00-0015 SF Polymer-Based, Fiber-Reinforced Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Genesis® DM).....	2.60	
<i>For Up To 100, Add</i>	0.85	
<i>For >100 To 500, Add</i>	0.43	
<i>For >5,000, Deduct</i>	-0.17	
07 24 13 00-0016 SF Acrylic-Modified, Fiber-Reinforced Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Genesis®).....	3.02	
<i>For Up To 100, Add</i>	0.85	
<i>For >100 To 500, Add</i>	0.43	
<i>For >5,000, Deduct</i>	-0.17	
07 24 13 00-0017 SF Water Resistant, Acrylic Co-Polymer Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Dryflex®).....	5.31	
<i>For Up To 100, Add</i>	0.85	
<i>For >100 To 500, Add</i>	0.43	
<i>For >5,000, Deduct</i>	-0.17	
07 24 13 00-0018 SF Hydrostatic Water Resistant, Acrylic Co-Polymer Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Dryflex®).....	7.11	
<i>For Up To 100, Add</i>	0.85	
<i>For >100 To 500, Add</i>	0.43	
<i>For >5,000, Deduct</i>	-0.17	
07 24 13 00-0019 Finish Coats For Exterior Insulation Finishing Systems (EIFS) <small>(07 24 13 00-0001)</small>		
<i>Note: Includes all standard manufacturers' colors.</i>		
07 24 13 00-0020 SF 100% Acrylic-Based Aggregate Fine Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit DPR Finish).....	4.43	
<i>For Up To 100, Add</i>	1.71	
<i>For >100 To 500, Add</i>	0.85	
<i>For >5,000, Deduct</i>	-0.34	
07 24 13 00-0021 SF 100% Acrylic-Based Aggregate Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit DPR Finish).....	4.52	
<i>For Up To 100, Add</i>	1.71	
<i>For >100 To 500, Add</i>	0.85	
<i>For >5,000, Deduct</i>	-0.34	
07 24 13 00-0022 SF Lightweight Elastic, 100% Acrylic-Based Aggregate Fine Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit E™ Finish).....	5.19	
<i>For Up To 100, Add</i>	1.71	
<i>For >100 To 500, Add</i>	0.85	
<i>For >5,000, Deduct</i>	-0.34	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 24 Exterior Insulation and Finish Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 24 13 00-0023	SF		Lightweight Elastic, 100% Acrylic-Based Aggregate Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit E™ Finish).....	5.78	
			For Up To 100, Add	1.71	
			For >100 To 500, Add	0.85	
			For >5,000, Deduct	-0.34	
07 24 13 00-0024	SF		Mildew Resistant, 100% Acrylic-Based Aggregate Fine Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit PMR™ Finish).....	5.19	
			For Up To 100, Add	1.71	
			For >100 To 500, Add	0.85	
			For >5,000, Deduct	-0.34	
07 24 13 00-0025	SF		Mildew Resistant, 100% Acrylic-Based Aggregate Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit PMR™ Finish).....	5.78	
			For Up To 100, Add	1.71	
			For >100 To 500, Add	0.85	
			For >5,000, Deduct	-0.34	
07 24 13 00-0026	SF		Flexible Elastomeric, 100% Acrylic-Based Smooth Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Weatherlastic® Smooth)	4.62	
			For Up To 100, Add	1.71	
			For >100 To 500, Add	0.85	
			For >5,000, Deduct	-0.34	
07 24 13 00-0027	SF		Flexible Elastomeric, 100% Acrylic-Based Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Weatherlastic®).....	5.23	
			For Up To 100, Add	1.71	
			For >100 To 500, Add	0.85	
			For >5,000, Deduct	-0.34	
07 24 13 00-0028	SF		100% Acrylic-Based Finish With Multi-Colored Quartz Aggregates, Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Ameristone™)	10.52	
			For Up To 100, Add	1.71	
			For >100 To 500, Add	0.85	
			For >5,000, Deduct	-0.34	
07 24 13 00-0029			Primer And Sealers For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0030	SF		100% Acrylic-Based Primer/Adhesion Promoter For Exterior Insulation Finishing Systems (EIFS) (Dryvit Prymit®).....	1.33	
			For Up To 100, Add	0.48	
			For >100 To 500, Add	0.24	
			For >5,000, Deduct	-0.10	
07 24 13 00-0031	SF		100% Acrylic Emulsion Primer/Sealer For Exterior Insulation Finishing Systems (EIFS) (Dryvit SealClear™).....	1.36	
			For Up To 100, Add	0.48	
			For >100 To 500, Add	0.24	
			For >5,000, Deduct	-0.10	
07 24 13 00-0032			Air/Water/Vapor Barriers For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0033	SF		Smooth, High Performance, Polymer-Based, Non-Cementitious Water-Resistive Membrane And Air Barrier For Exterior Insulation Finishing Systems (EIFS) (Dryvit Backstop® NT™), Per Coat	1.83	
			For Up To 100, Add	0.48	
			For >100 To 500, Add	0.24	
			For >5,000, Deduct	-0.10	
07 24 13 00-0034	SF		Texture, High Performance, Polymer-Based, Non-Cementitious Water-Resistive Membrane And Air Barrier For Exterior Insulation Finishing Systems (EIFS) (Dryvit Backstop® NT™), Per Coat	2.26	
			For Up To 100, Add	0.48	
			For >100 To 500, Add	0.24	
			For >5,000, Deduct	-0.10	
07 24 13 00-0035			Drainage Accessories For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0036	SF		1/8" Thick, Flexible Polyamide Drainage Mat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Drainage Mat)	2.79	
			For Up To 100, Add	0.53	
			For >100 To 500, Add	0.27	
			For >5,000, Deduct	-0.11	
07 24 13 00-0037			Starter Tracks For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0038	LF		1" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	4.06	
07 24 13 00-0039	LF		1-1/2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	4.38	
07 24 13 00-0040	LF		2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	4.76	
07 24 13 00-0041	LF		3" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	5.53	
07 24 13 00-0042	LF		1" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	4.38	
07 24 13 00-0043	LF		1-1/2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	4.76	
07 24 13 00-0044	LF		2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	5.12	
07 24 13 00-0045	LF		3" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	5.98	
07 24 13 00-0046			Demolish Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 24 13 00-0047 SF Demolish Exterior Insulation Finishing Systems (EIFS).....	7.13	
Note: Includes demolition of all finish coats, base coats, reinforcing layers and insulation layers down to the substrate. Excludes demolition of sheathing.		
For Up To 100, Add	3.57	
For >100 To 500, Add	1.78	
For >5,000, Deduct	-0.71	

07 25 Weather Barriers (07)

07 26 Vapor Retarders (07 25)

07 26 13 Above-Grade Vapor Retarders (07 26)

07 26 13 00-0001 CSF Two Layer Kraft Paper Laminated With Asphalt, Grade "B" Building Paper (Aquabar B).....	32.44
07 26 13 00-0002 CSF Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Jumbo Tex).....	30.26
07 26 13 00-0003 CSF 60 Minute Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Super Jumbo Tex 60 Minute).....	37.24
07 26 13 00-0004 CSF Two Ply 60 Minute Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Two Ply Super Jumbo Tex 60 Minute)	47.48
07 26 13 00-0005 CSF Regular Weight Red Rosin Sized Sheathing	28.01
07 26 13 00-0006 CLF 6" Wide Two Layer Kraft Paper Laminated With Asphalt, Building Flashing Paper (Bond Beam Paper).....	94.49
07 26 13 00-0007 CLF 4" Wide Self Adhering Butyl Sealing Tape	140.62
07 26 13 00-0008 CLF 6" Wide Self Adhesive Butyl Sealing Tape	201.20
07 26 13 00-0009 CLF 9" Wide Self Adhesive Butyl Sealing Tape	277.29
07 26 13 00-0010 CSF Building Wrap (Tyvek)	82.33

07 27 Air Barriers (07 25)

07 27 23 Board Product Air Barriers (07 27)

07 27 23 00-0001 Barriers For Plenums (07 27 23)

07 27 23 00-0002 SF 0.5" Thick Leaded Vinyl Acoustic Plenum Barrier 0.48 LB/SF	13.26	3.63
For Up To 50, Add	4.84	
For >50 To 200, Add	2.75	
For >200 To 500, Add	1.02	
For >2,500, Deduct	-0.66	
07 27 23 00-0003 SF 0.625" Thick Leaded Vinyl Acoustic Plenum Barrier 0.87 LB/SF	14.35	3.63
For Up To 50, Add	5.28	
For >50 To 200, Add	3.00	
For >200 To 500, Add	1.11	
For >2,500, Deduct	-0.72	
07 27 23 00-0004 SF Aluminum Foil Fiberglass Reinforced Plenum Bar Parallel With Joists 1" Thick.....	5.09	2.42
For Up To 50, Add	2.53	
For >50 To 200, Add	1.39	
For >200 To 500, Add	0.48	
For >2,500, Deduct	-0.25	
07 27 23 00-0005 SF Aluminum Foil Fiberglass Reinforced Plenum Bar Perpendicular With Joists 1" Thick	9.26	3.63
For Up To 50, Add	4.52	
For >50 To 200, Add	2.49	
For >200 To 500, Add	0.85	
For >2,500, Deduct	-0.46	
07 27 23 00-0006 SF Aluminum Mesh Barrier For Plenum Kraft Paper Backed	6.45	2.42
For Up To 50, Add	2.73	
For >50 To 200, Add	1.53	
For >200 To 500, Add	0.54	
For >2,500, Deduct	-0.32	
07 27 23 00-0007 SF 1/64" Thick Sheet Lead Barrier For Plenum 1 LB/SF	10.13	2.42
For Up To 50, Add	3.14	
For >50 To 200, Add	1.82	
For >200 To 500, Add	0.71	
For >2,500, Deduct	-0.51	

07 30 Steep Slope Roofing (07)

Note: Includes starter strips and manufacturer's product specific warranties.

07 31 Shingles and Shakes (07 30)

07 31 13 Asphalt Shingles (07 31)

07 31 13 13 Fiberglass-Reinforced Asphalt Shingles (07 31 13)

07 31 13 13-0001 Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (07 31 13 13)

Note: Excludes underlayment, drip edges, and ridge vent/shingles.

07 31 13 13-0002 SQ 200 LB/SQ, 5" Exposure, Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed CT 20)	282.50	198.86
For >35 To 75, Deduct	-10.17	
For >75 To 100, Deduct	-16.72	
For >100 To 200, Deduct	-25.31	
For >200, Deduct	-38.42	
For Steep Roof, Over 7 To 12, Add	57.87	

07 Thermal And Moisture Protection**07 30 Steep Slope Roofing****07 31 Shingles and Shakes**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 13 13-0003	SQ	220 LB/SQ, 5" Exposure, Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed XT 25).....	296.30	208.84
		<i>For >35 To 75, Deduct</i>	-10.64	
		<i>For >75 To 100, Deduct</i>	-17.52	
		<i>For >100 To 200, Deduct</i>	-26.52	
		<i>For >200, Deduct</i>	-40.27	
		<i>For Steep Roof, Over 7 To 12, Add</i>	60.76	
07 31 13 13-0004	SQ	230 LB/SQ, 5" Exposure, Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed XT 30).....	339.64	219.26
		<i>For >35 To 75, Deduct</i>	-14.02	
		<i>For >75 To 100, Deduct</i>	-21.81	
		<i>For >100 To 200, Deduct</i>	-32.41	
		<i>For >200, Deduct</i>	-47.99	
		<i>For Steep Roof, Over 7 To 12, Add</i>	63.81	
07 31 13 13-0005		Architectural Fiberglass Reinforced, Asphalt Composition Shingle <small>(07 31 13 13)</small>		
		Note: Excludes underlayment, drip edges, and ridge vent/shingles.		
07 31 13 13-0006	SQ	245 LB/SQ, 5" Exposure, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark).....	353.18	253.86
		<i>For >35 To 75, Deduct</i>	-12.24	
		<i>For >75 To 100, Deduct</i>	-20.46	
		<i>For >100 To 200, Deduct</i>	-31.13	
		<i>For >200, Deduct</i>	-47.56	
		<i>For Steep Roof, Over 7 To 12, Add</i>	73.84	
07 31 13 13-0007	SQ	240 LB/SQ, 8" Exposure, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Highland Slate).....	369.93	241.71
		<i>For >35 To 75, Deduct</i>	-15.01	
		<i>For >75 To 100, Deduct</i>	-23.51	
		<i>For >100 To 200, Deduct</i>	-35.01	
		<i>For >200, Deduct</i>	-52.01	
		<i>For Steep Roof, Over 7 To 12, Add</i>	70.33	
07 31 13 13-0008	SQ	265 LB/SQ, 5" Exposure, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark Plus).....	401.43	266.56
		<i>For >35 To 75, Deduct</i>	-15.91	
		<i>For >75 To 100, Deduct</i>	-25.15	
		<i>For >100 To 200, Deduct</i>	-37.57	
		<i>For >200, Deduct</i>	-56.05	
		<i>For Steep Roof, Over 7 To 12, Add</i>	77.56	
07 31 13 13-0009	SQ	235 LB/SQ, 8" Exposure, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Hatteras).....	383.66	230.21
		<i>For >35 To 75, Deduct</i>	-17.44	
		<i>For >75 To 100, Deduct</i>	-26.16	
		<i>For >100 To 200, Deduct</i>	-38.37	
		<i>For >200, Deduct</i>	-55.81	
		<i>For Steep Roof, Over 7 To 12, Add</i>	66.97	
07 31 13 13-0010	SQ	300 LB/SQ, 5" Exposure, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark Premium).....	434.13	279.90
		<i>For >35 To 75, Deduct</i>	-17.97	
		<i>For >75 To 100, Deduct</i>	-27.93	
		<i>For >100 To 200, Deduct</i>	-41.48	
		<i>For >200, Deduct</i>	-61.39	
		<i>For Steep Roof, Over 7 To 12, Add</i>	81.41	
07 31 13 13-0011	SQ	300 LB/SQ, 5" Exposure, Random Laminated Tabs, One Piece, Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Independence).....	460.48	279.90
		<i>For >35 To 75, Deduct</i>	-20.61	
		<i>For >75 To 100, Deduct</i>	-31.09	
		<i>For >100 To 200, Deduct</i>	-45.69	
		<i>For >200, Deduct</i>	-66.66	
		<i>For Steep Roof, Over 7 To 12, Add</i>	81.41	
07 31 13 13-0012	SQ	355 LB/SQ, 4" Exposure, Sculpted Edge, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Presidential Shake).....	503.31	308.54
		<i>For >35 To 75, Deduct</i>	-22.28	
		<i>For >75 To 100, Deduct</i>	-33.74	
		<i>For >100 To 200, Deduct</i>	-49.67	
		<i>For >200, Deduct</i>	-72.61	
		<i>For Steep Roof, Over 7 To 12, Add</i>	89.78	
07 31 13 13-0013	SQ	340 LB/SQ, 5" Exposure, Three Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark TL).....	497.36	293.89
		<i>For >35 To 75, Deduct</i>	-23.03	
		<i>For >75 To 100, Deduct</i>	-34.31	
		<i>For >100 To 200, Deduct</i>	-50.20	
		<i>For >200, Deduct</i>	-72.76	
		<i>For Steep Roof, Over 7 To 12, Add</i>	85.47	
07 31 13 13-0014	SQ	300 LB/SQ, 5" Exposure, Reflective Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark Solaris).....	492.87	279.90
		<i>For >35 To 75, Deduct</i>	-23.85	
		<i>For >75 To 100, Deduct</i>	-34.98	
		<i>For >100 To 200, Deduct</i>	-50.88	
		<i>For >200, Deduct</i>	-73.13	
		<i>For Steep Roof, Over 7 To 12, Add</i>	81.41	
07 31 13 13-0015	SQ	355 LB/SQ, 8" Exposure, Two Full Size Layers, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Centennial Slate).....	574.23	308.54
		<i>For >35 To 75, Deduct</i>	-29.37	
		<i>For >75 To 100, Deduct</i>	-42.26	
		<i>For >100 To 200, Deduct</i>	-61.02	
		<i>For >200, Deduct</i>	-86.79	
		<i>For Steep Roof, Over 7 To 12, Add</i>	89.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 13 13-0016 SQ 355 LB/SQ, 8" Exposure, Scalloped Cut, Two Full Size Layers, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Carriage House).....	592.70	308.54
<i>For >35 To 75, Deduct</i>	-31.22	
<i>For >75 To 100, Deduct</i>	-44.47	
<i>For >100 To 200, Deduct</i>	-63.97	
<i>For >200, Deduct</i>	-90.49	
<i>For Steep Roof, Over 7 To 12, Add</i>	89.78	
07 31 13 13-0017 SQ 480 LB/SQ, 4" Exposure, Sculpted Edge, Three Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Presidential Shake TL)	658.09	340.22
<i>For >35 To 75, Deduct</i>	-34.88	
<i>For >75 To 100, Deduct</i>	-49.59	
<i>For >100 To 200, Deduct</i>	-71.27	
<i>For >200, Deduct</i>	-100.69	
<i>For Steep Roof, Over 7 To 12, Add</i>	98.98	
07 31 13 13-0018 SQ 425 LB/SQ, 8" Exposure, Random Laminated Tabs, Two Full Size Layers, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed GrandManor).....	646.53	323.95
<i>For >35 To 75, Deduct</i>	-35.20	
<i>For >75 To 100, Deduct</i>	-49.60	
<i>For >100 To 200, Deduct</i>	-71.04	
<i>For >200, Deduct</i>	-99.85	
<i>For Steep Roof, Over 7 To 12, Add</i>	94.26	
07 31 13 13-0019 Asphalt Shingle Accessories (07 31 13 13)		
07 31 13 13-0020 LF Hip And Ridge Roll Vent	8.56	1.19
Note: Excludes shingles.		
07 31 13 13-0021 LF Three Tab Hip And Ridge Shingles	4.02	2.96
07 31 13 13-0022 LF Architectural Hip And Ridge Shingles	4.82	3.29
07 31 13 13-0023 SQ Demolish Each Additional Layer Of Shingles	92.21	
07 31 16 Metal Shingles (07 31)		
07 31 16 00-0001 Aluminum Shingles (07 31 16)		
07 31 16 00-0002 SQ Aluminum Shingles, Mill Finish, 0.020" Thick	759.89	188.75
<i>For Colors, Anodized Finish, Add</i>	30.00	
<i>For Bonderized Finish, Add</i>	47.00	
<i>For 1" Factory Applied Polystyrene, Add</i>	37.00	
07 31 16 00-0003 SQ Aluminum Shingles, Mill Finish, 0.030" Thick	1,027.77	206.30
<i>For Colors, Anodized Finish, Add</i>	30.00	
<i>For Bonderized Finish, Add</i>	47.00	
<i>For 1" Factory Applied Polystyrene, Add</i>	37.00	
07 31 16 00-0004 LF Aluminum Shingles, Ridge Cap, 0.020" Thick	13.76	2.72
07 31 16 00-0005 LF Aluminum Shingles, Ridge Cap, 0.030" Thick	14.38	2.72
07 31 16 00-0006 LF Aluminum Shingles, Valley Section, 0.020" Thick	9.10	2.72
07 31 16 00-0007 LF Aluminum Shingles, Valley Section, 0.030" Thick	10.34	2.72
07 31 16 00-0008 Galvanized Steel Shingles (07 31 16)		
07 31 16 00-0009 SQ 24 Gauge, 0.0276" Thickness, Galvanized Steel Shingles	567.81	164.37
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-9.56	
<i>For >75 To 100, Deduct</i>	-24.95	
<i>For >100 To 200, Deduct</i>	-42.73	
<i>For >200, Deduct</i>	-58.12	
<i>For Steep Roof, Over 7 To 12, Add</i>	105.21	
07 31 16 00-0010 SQ 26 Gauge, 0.0217" Thickness, Galvanized Steel Shingles	545.33	163.05
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-8.77	
<i>For >75 To 100, Deduct</i>	-23.50	
<i>For >100 To 200, Deduct</i>	-40.43	
<i>For >200, Deduct</i>	-55.16	
<i>For Steep Roof, Over 7 To 12, Add</i>	104.32	
07 31 16 00-0011 SQ 24 Gauge, 0.0276" Thickness, Galvanized And Bonderized Steel Shingles.....	916.29	164.37
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-23.50	
<i>For >75 To 100, Deduct</i>	-49.35	
<i>For >100 To 200, Deduct</i>	-81.07	
<i>For >200, Deduct</i>	-106.91	
<i>For Steep Roof, Over 7 To 12, Add</i>	105.21	
07 31 16 00-0012 SQ 26 Gauge, 0.0276" Thickness, Galvanized And Bonderized Steel Shingles.....	841.07	163.05
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-20.60	
<i>For >75 To 100, Deduct</i>	-44.21	
<i>For >100 To 200, Deduct</i>	-72.96	
<i>For >200, Deduct</i>	-96.56	
<i>For Steep Roof, Over 7 To 12, Add</i>	104.32	
07 31 16 00-0013 LF Galvanized Steel Shingles, Ridge Or Valley	9.33	2.19
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-0.20	
<i>For >75 To 100, Deduct</i>	-0.46	
<i>For >100 To 200, Deduct</i>	-0.77	
<i>For >200, Deduct</i>	-1.03	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.37	

07 Thermal And Moisture Protection**07 30 Steep Slope Roofing****07 31 Shingles and Shakes**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**07 31 26 Slate Shingles** (07 31)

Note: Includes 30 LB felt and fasteners.

07 31 26 00-0001 Shingles Including 30 LB Felt And Nails <small>(07 31 26)</small>			
07 31 26 00-0002	SQ Slate Shingles, Buckingham, Virginia Black, 3/16" Thick.....	1,283.98	280.37
	<i>For >50 To 75, Deduct</i>	-26.44	
	<i>For >75 To 100, Deduct</i>	-61.84	
	<i>For >100 To 200, Deduct</i>	-103.86	
	<i>For >200, Deduct</i>	-139.26	
	<i>For Graduated Shapes, Add</i>	99.15	
	<i>For Steep Roof, Over 7 To 12, Add</i>	199.36	
07 31 26 00-0003	SQ Slate Shingles, Buckingham, Virginia Black, 1/4" Thick.....	1,464.06	280.37
	<i>For >50 To 75, Deduct</i>	-33.64	
	<i>For >75 To 100, Deduct</i>	-74.45	
	<i>For >100 To 200, Deduct</i>	-123.67	
	<i>For >200, Deduct</i>	-164.47	
	<i>For Graduated Shapes, Add</i>	126.16	
	<i>For Steep Roof, Over 7 To 12, Add</i>	199.36	
07 31 26 00-0004	SQ Slate Shingles, Penn Black Bangor.....	1,410.03	280.37
	<i>For >50 To 75, Deduct</i>	-31.48	
	<i>For >75 To 100, Deduct</i>	-70.67	
	<i>For >100 To 200, Deduct</i>	-117.72	
	<i>For >200, Deduct</i>	-156.91	
	<i>For Graduated Shapes, Add</i>	118.05	
	<i>For Steep Roof, Over 7 To 12, Add</i>	199.36	
07 31 26 00-0005	SQ Slate Shingles, Vermont, Unfading Colors, Green.....	1,428.04	280.37
	<i>For >50 To 75, Deduct</i>	-32.20	
	<i>For >75 To 100, Deduct</i>	-71.93	
	<i>For >100 To 200, Deduct</i>	-119.70	
	<i>For >200, Deduct</i>	-159.43	
	<i>For Graduated Shapes, Add</i>	120.76	
	<i>For Steep Roof, Over 7 To 12, Add</i>	199.36	
07 31 26 00-0006	SQ Slate Shingles, Vermont, Unfading Colors, Semi-Weathered, Green/Gray.....	1,500.07	280.37
	<i>For >50 To 75, Deduct</i>	-35.08	
	<i>For >75 To 100, Deduct</i>	-76.97	
	<i>For >100 To 200, Deduct</i>	-127.63	
	<i>For >200, Deduct</i>	-169.51	
	<i>For Graduated Shapes, Add</i>	131.56	
	<i>For Steep Roof, Over 7 To 12, Add</i>	199.36	
07 31 26 00-0007	SQ Slate Shingles, Vermont, Unfading Color, Purple.....	1,410.03	280.37
	<i>For >50 To 75, Deduct</i>	-31.48	
	<i>For >75 To 100, Deduct</i>	-70.67	
	<i>For >100 To 200, Deduct</i>	-117.72	
	<i>For >200, Deduct</i>	-156.91	
	<i>For Graduated Shapes, Add</i>	118.05	
	<i>For Steep Roof, Over 7 To 12, Add</i>	199.36	
07 31 26 00-0008	SQ Slate Shingles, Vermont, Unfading Color, Black Or Gray.....	1,356.01	280.37
	<i>For >50 To 75, Deduct</i>	-29.32	
	<i>For >75 To 100, Deduct</i>	-66.89	
	<i>For >100 To 200, Deduct</i>	-111.78	
	<i>For >200, Deduct</i>	-149.35	
	<i>For Graduated Shapes, Add</i>	109.95	
	<i>For Steep Roof, Over 7 To 12, Add</i>	199.36	
07 31 26 00-0009	SQ Slate Shingles, Vermont, Unfading Color, Red.....	2,481.23	280.37
	<i>For >50 To 75, Deduct</i>	-74.33	
	<i>For >75 To 100, Deduct</i>	-145.65	
	<i>For >100 To 200, Deduct</i>	-235.56	
	<i>For >200, Deduct</i>	-306.88	
	<i>For Graduated Shapes, Add</i>	278.73	
	<i>For Steep Roof, Over 7 To 12, Add</i>	199.36	
07 31 26 00-0010	SQ Slate Shingles, Vermont, Unfading Color, Variegated Purple.....	1,410.03	280.37
	<i>For >50 To 75, Deduct</i>	-31.48	
	<i>For >75 To 100, Deduct</i>	-70.67	
	<i>For >100 To 200, Deduct</i>	-117.72	
	<i>For >200, Deduct</i>	-156.91	
	<i>For Graduated Shapes, Add</i>	118.05	
	<i>For Steep Roof, Over 7 To 12, Add</i>	199.36	

07 31 29 Wood Shingles and Shakes (07 31)**07 31 29 13 Wood Shingles** (07 31 29)

07 31 29 13-0001 #1 Grade, Red Cedar Shingles <small>(07 31 29 13)</small>			
07 31 29 13-0002 #1 Grade, Red Cedar Shingles Installed On Roofs <small>(07 31 29 13-0001)</small>			
07 31 29 13-0003	SQ 3-3/4" Exposure, 16" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	946.27	242.39
	<i>For Steep Roof, Over 7 To 12, Add</i>	155.13	
	<i>For Pressure-Impregnated Treated (Preservative), Add</i>	69.22	
07 31 29 13-0004	SQ 5" Exposure, 16" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	686.64	181.79
	<i>For Steep Roof, Over 7 To 12, Add</i>	116.35	
	<i>For Pressure-Impregnated Treated (Preservative), Add</i>	48.46	
07 31 29 13-0005	SQ 4-1/2" Exposure, 18" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	838.93	206.04
	<i>For Steep Roof, Over 7 To 12, Add</i>	131.87	
	<i>For Pressure-Impregnated Treated (Preservative), Add</i>	64.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 29 13-0006 SQ 5-1/2" Exposure, 18" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	687.24 108.59 52.18	169.68
07 31 29 13-0007 SQ 5-3/4" Exposure, 24" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	902.67 102.77 87.23	160.59
07 31 29 13-0008 SQ 7-1/2" Exposure, 24" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	700.09 87.26 64.11	136.35
07 31 29 13-0009 #1 Grade, Red Cedar Shingles Installed On Walls (07 31 29 13-0001)		
07 31 29 13-0010 SQ 7" Exposure, 16" Shingle, #1 Grade, Red Cedar Shingles Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	667.05 34.61	218.16
07 31 29 13-0011 SQ 8" Exposure, 18" Shingle, #1 Grade, Red Cedar Shingles Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	652.00 35.99	206.04
07 31 29 13-0012 SQ 10-1/2" Exposure, 24" Shingle, #1 Grade, Red Cedar Shingles Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	662.82 45.79	178.77
07 31 29 13-0013 #2 Grade, Red Cedar Shingles (07 31 29 13)		
07 31 29 13-0014 #2 Grade, Red Cedar Shingles Installed On Roofs (07 31 29 13-0013)		
07 31 29 13-0015 SQ 3-1/2" Exposure, 16" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	881.77 162.89 55.91	254.52
07 31 29 13-0016 SQ 4" Exposure, 16" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	786.69 147.38 48.92	230.27
07 31 29 13-0017 SQ 4" Exposure, 18" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	837.57 147.38 56.55	230.27
07 31 29 13-0018 SQ 4-1/2" Exposure, 18" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	747.47 131.87 50.31	206.04
07 31 29 13-0019 SQ 5-3/4" Exposure, 24" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	726.87 102.77 60.86	160.59
07 31 29 13-0020 SQ 6-1/2" Exposure, 24" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	594.75 89.20 47.40	139.38
07 31 29 13-0021 #2 Grade, Red Cedar Shingles Installed On Walls (07 31 29 13-0013)		
07 31 29 13-0022 SQ 6" Exposure, 16" Shingle, #2 Grade, Red Cedar Shingles Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	646.92 27.96	230.27
07 31 29 13-0023 SQ 7" Exposure, 18" Shingle, #2 Grade, Red Cedar Shingles Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	624.82 28.28	218.16
07 31 29 13-0024 SQ 9" Exposure, 24" Shingle, #2 Grade, Red Cedar Shingles Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	600.82 31.95	193.92
07 31 29 16 Wood Shakes (07 31 29)		
07 31 29 16-0001 #1 Grade, Red Cedar Shakes (07 31 29 16)		
07 31 29 16-0002 #1 Grade, Red Cedar Shakes Installed On Roofs (07 31 29 16-0001)		
07 31 29 16-0003 SQ 8-1/2" Exposure, 1/2" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Roof <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	692.09 126.05 44.73	196.94
07 31 29 16-0004 SQ 8-1/2" Exposure, 3/4" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Roof <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	791.48 126.05 59.64	196.94
07 31 29 16-0005 SQ 10" Exposure, 1/2" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	731.18 102.77 61.50	160.59
07 31 29 16-0006 SQ 10" Exposure, 3/4" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	773.42 102.77 67.84	160.59
07 31 29 16-0007 #1 Grade, Red Cedar Shakes Installed On Walls (07 31 29 16-0001)		
07 31 29 16-0008 SQ 8-1/2" Exposure, 1/2" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	722.39 44.73	212.09
07 31 29 16-0009 SQ 8-1/2" Exposure, 3/4" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	821.78 59.64	212.09
07 31 29 16-0010 SQ 10" Exposure, 1/2" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	773.61 61.50	181.79
07 31 29 16-0011 SQ 10" Exposure, 3/4" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	815.85 67.84	181.79
07 31 29 19 Wood Shingles And Shakes Cap (07 31 29)		

07 Thermal And Moisture Protection**07 30 Steep Slope Roofing****07 31 Shingles and Shakes**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 29 19-0001			Wood Hip And Ridge Cap For Wood Shingles Or Shakes (07 31 29 19)		
07 31 29 19-0002	LF		Red Cedar Hip Or Ridge Cap For Wood Shingles Or Shakes	11.54	1.58
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.17	
			<i>For Pressure-Impregnated Treated (Preservative) Ridge, Add</i>	1.18	
07 31 33			Composite Rubber Shingles (07 31)		
07 31 33 00-0001	SQ		Class C Rectangular Edges Polymeric Rubber Slate Shingles, 7.0" Exposure	1,319.98	252.95
			Note: Gray or black.		
			<i>For Purple Or Green Color, Add</i>	130.26	
			<i>For Brown Or Red Color, Add</i>	333.80	
			<i>For Steep Roof, Over 7 To 12, Add</i>	161.87	
			<i>For >50 To 75, Deduct</i>	-20.35	
			<i>For >75 To 100, Deduct</i>	-53.35	
			<i>For >100 To 200, Deduct</i>	-86.35	
			<i>For >200, Deduct</i>	-132.00	
			<i>For 6.5" Exposure, Add</i>	91.88	
			<i>For 6.0" Exposure, Add</i>	183.75	
07 31 33 00-0002	SQ		Class A Rectangular Edges Polymeric Rubber Slate Shingles, 7.0" Exposure.....	1,862.74	252.95
			Note: Fire resistant. Gray or black.		
			<i>For Purple, Green, Brown Or Red, Add</i>	203.54	
			<i>For Steep Roof, Over 7 To 12, Add</i>	161.87	
			<i>For >50 To 75, Deduct</i>	-33.92	
			<i>For >75 To 100, Deduct</i>	-80.49	
			<i>For >100 To 200, Deduct</i>	-127.06	
			<i>For >200, Deduct</i>	-186.27	
			<i>For 6.5" Exposure, Add</i>	130.65	
			<i>For 6.0" Exposure, Add</i>	261.29	
07 31 33 00-0003	SQ		Class C Shaped Polymeric Rubber Slate Shingle, 7.0" Exposure	1,543.47	252.95
			Note: Beaver tail, chisel point or beveled edges. Gray or black.		
			<i>For Purple, Green, Brown Or Red, Add</i>	373.55	
			<i>For Steep Roof, Over 7 To 12, Add</i>	161.87	
			<i>For >50 To 75, Deduct</i>	-25.94	
			<i>For >75 To 100, Deduct</i>	-64.53	
			<i>For >100 To 200, Deduct</i>	-103.11	
			<i>For >200, Deduct</i>	-154.35	
			<i>For 6.5" Exposure, Add</i>	107.84	
			<i>For 6.0" Exposure, Add</i>	215.68	
07 31 33 00-0004	SQ		Class A Shaped Polymeric Rubber Slate Shingle, 7.0" Exposure	1,974.48	252.95
			Note: Fire resistant. Beaver tail, chisel point or beveled edges. Gray or black.		
			<i>For Purple, Green, Brown Or Red, Add</i>	161.55	
			<i>For Steep Roof, Over 7 To 12, Add</i>	161.87	
			<i>For >50 To 75, Deduct</i>	-36.72	
			<i>For >75 To 100, Deduct</i>	-86.08	
			<i>For >100 To 200, Deduct</i>	-135.44	
			<i>For >200, Deduct</i>	-197.45	
			<i>For 6.5" Exposure, Add</i>	138.63	
			<i>For 6.0" Exposure, Add</i>	277.25	
07 31 33 00-0005	LF		Hip Or Ridge Polymeric Rubber Slate Shingle.....	14.88	1.70
			Note: Beveled or pointed edges, gray or black.		
07 32 Roof Tiles (07 30)					
07 32 13 Clay Roof Tiles (07 32)					
			Note: 8-1/4" x 11" exposure. Includes mortar, battens, fasteners, felt underlayment and 90# cap sheet.		
07 32 13 00-0001			Clay Roofing Tile 8-1/4" x 11" Exposure (07 32 13)		
			Note: Includes mortar, battens, fasteners, felt underlayment and 90# cap sheet.		
07 32 13 00-0002	SQ		Lanai Or Classic Tile, 158 Piece Per SQ	1,325.03	265.90
			<i>For >25 To 50, Deduct</i>	-47.59	
			<i>For >50 To 75, Deduct</i>	-92.61	
			<i>For >75 To 100, Deduct</i>	-129.71	
			<i>For >100 To 200, Deduct</i>	-158.87	
			<i>For >200, Deduct</i>	-180.09	
			<i>For 20 Year Warranty, Add</i>	55.52	
07 32 13 00-0003	SQ		Americana (Most Colors) Tile Roofing, 158 Piece Per SQ.....	1,579.18	265.90
			<i>For >25 To 50, Deduct</i>	-62.84	
			<i>For >50 To 75, Deduct</i>	-118.03	
			<i>For >75 To 100, Deduct</i>	-162.74	
			<i>For >100 To 200, Deduct</i>	-196.99	
			<i>For >200, Deduct</i>	-220.76	
			<i>For 20 Year Warranty, Add</i>	73.31	
07 32 13 00-0004	SQ		Americana (Green, Gray Or Brown) Tile, 158 Piece Per SQ	1,579.18	265.90
			<i>For >25 To 50, Deduct</i>	-62.84	
			<i>For >50 To 75, Deduct</i>	-118.03	
			<i>For >75 To 100, Deduct</i>	-162.74	
			<i>For >100 To 200, Deduct</i>	-196.99	
			<i>For >200, Deduct</i>	-220.76	
			<i>For 20 Year Warranty, Add</i>	73.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 32 13 00-0005 SQ Americana (Blue) Tile, 158 Piece Per SQ.....	1,794.82	265.90
<i>For >25 To 50, Deduct</i>	-75.78	
<i>For >50 To 75, Deduct</i>	-139.59	
<i>For >75 To 100, Deduct</i>	-190.78	
<i>For >100 To 200, Deduct</i>	-229.33	
<i>For >200, Deduct</i>	-255.26	
<i>For 20 Year Warranty, Add</i>	88.41	
07 32 13 00-0006 SQ French Tile Roofing, Red, 133 Piece Per SQ	1,580.01	325.11
<i>For >25 To 50, Deduct</i>	-55.79	
<i>For >50 To 75, Deduct</i>	-109.24	
<i>For >75 To 100, Deduct</i>	-153.39	
<i>For >100 To 200, Deduct</i>	-188.24	
<i>For >200, Deduct</i>	-213.79	
<i>For 20 Year Warranty, Add</i>	65.09	
07 32 13 00-0007 SQ French Tile Roofing, Blue Or Green, 133 Piece Per SQ.....	1,959.36	325.11
<i>For >25 To 50, Deduct</i>	-78.55	
<i>For >50 To 75, Deduct</i>	-147.17	
<i>For >75 To 100, Deduct</i>	-202.70	
<i>For >100 To 200, Deduct</i>	-245.14	
<i>For >200, Deduct</i>	-274.49	
<i>For 20 Year Warranty, Add</i>	91.64	
07 32 13 00-0008 SQ Norman Tile Roofing, 317 Piece Per SQ	2,501.84	438.59
<i>For >25 To 50, Deduct</i>	-97.50	
<i>For >50 To 75, Deduct</i>	-184.42	
<i>For >75 To 100, Deduct</i>	-255.09	
<i>For >100 To 200, Deduct</i>	-309.51	
<i>For >200, Deduct</i>	-347.68	
<i>For 20 Year Warranty, Add</i>	113.75	
07 32 13 00-0009 SQ Williamsburg Tile Roofing, Aged Cedar, 158 Piece Per SQ	1,390.21	325.11
<i>For >25 To 50, Deduct</i>	-44.40	
<i>For >50 To 75, Deduct</i>	-90.26	
<i>For >75 To 100, Deduct</i>	-128.71	
<i>For >100 To 200, Deduct</i>	-159.77	
<i>For >200, Deduct</i>	-183.42	
<i>For 20 Year Warranty, Add</i>	51.80	
07 32 13 00-0010 SQ Williamsburg Tile Roofing, Gray Or Green, 158 Piece Per SQ.....	1,697.51	325.11
<i>For >25 To 50, Deduct</i>	-62.84	
<i>For >50 To 75, Deduct</i>	-120.99	
<i>For >75 To 100, Deduct</i>	-168.66	
<i>For >100 To 200, Deduct</i>	-205.86	
<i>For >200, Deduct</i>	-232.59	
<i>For 20 Year Warranty, Add</i>	73.31	
07 32 13 00-0011 SQ Spanish Tile Roofing, Red, 171 Piece Per SQ	1,187.64	243.42
<i>For >25 To 50, Deduct</i>	-42.05	
<i>For >50 To 75, Deduct</i>	-82.25	
<i>For >75 To 100, Deduct</i>	-115.44	
<i>For >100 To 200, Deduct</i>	-141.63	
<i>For >200, Deduct</i>	-160.81	
<i>For 20 Year Warranty, Add</i>	49.05	
07 32 13 00-0012 SQ Spanish Tile Roofing, Blend, 171 Piece Per SQ.....	1,518.81	243.42
<i>For >25 To 50, Deduct</i>	-61.92	
<i>For >50 To 75, Deduct</i>	-115.36	
<i>For >75 To 100, Deduct</i>	-158.49	
<i>For >100 To 200, Deduct</i>	-191.30	
<i>For >200, Deduct</i>	-213.80	
<i>For 20 Year Warranty, Add</i>	72.23	
07 32 13 00-0013 SQ Spanish Tile Roofing, Glazed White, 171 Piece Per SQ.....	1,803.76	243.42
<i>For >25 To 50, Deduct</i>	-79.01	
<i>For >50 To 75, Deduct</i>	-143.86	
<i>For >75 To 100, Deduct</i>	-195.54	
<i>For >100 To 200, Deduct</i>	-234.05	
<i>For >200, Deduct</i>	-259.39	
<i>For 20 Year Warranty, Add</i>	92.18	
07 32 13 00-0014 SQ Two Piece Mission Tile Roofing, 192 Piece Per SQ	2,195.54	381.57
<i>For >25 To 50, Deduct</i>	-85.94	
<i>For >50 To 75, Deduct</i>	-162.32	
<i>For >75 To 100, Deduct</i>	-224.37	
<i>For >100 To 200, Deduct</i>	-272.10	
<i>For >200, Deduct</i>	-305.50	
<i>For 20 Year Warranty, Add</i>	100.27	
07 32 13 00-0015 SQ One Piece Mission Tile Roofing, 75 Piece Per SQ.....	993.87	265.90
<i>For >25 To 50, Deduct</i>	-27.72	
<i>For >50 To 75, Deduct</i>	-59.50	
<i>For >75 To 100, Deduct</i>	-86.65	
<i>For >100 To 200, Deduct</i>	-109.19	
<i>For >200, Deduct</i>	-127.11	
<i>For 20 Year Warranty, Add</i>	32.34	
07 32 13 00-0016 SQ One Piece Mission Tile Roofing, 134 Piece Per SQ	1,329.12	381.57
<i>For >25 To 50, Deduct</i>	-33.96	
<i>For >50 To 75, Deduct</i>	-75.68	
<i>For >75 To 100, Deduct</i>	-111.73	
<i>For >100 To 200, Deduct</i>	-142.13	
<i>For >200, Deduct</i>	-166.87	
<i>For 20 Year Warranty, Add</i>	39.62	

07 32 16 Concrete Roof Tiles (07 32)

07 Thermal And Moisture Protection**07 30 Steep Slope Roofing****07 32 Roof Tiles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 32 16 00-0001			Corrugated Tiles And Shakes Nailed To Wood ^(07 32 16) Note: Includes 30 lb felt underlayment.		
07 32 16 00-0002	SQ		13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Earthtone Colors, Corrugated	1,169.74	403.07
			<i>For >50 To 75, Deduct</i>	-14.54	
			<i>For >75 To 100, Deduct</i>	-45.60	
			<i>For >100 To 200, Deduct</i>	-80.30	
			<i>For >200, Deduct</i>	-111.36	
			<i>For Steep Roof, Over 7 To 12, Add</i>	257.99	
07 32 16 00-0003	SQ		13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Custom Blues, Corrugated	1,539.49	403.07
			<i>For >50 To 75, Deduct</i>	-29.33	
			<i>For >75 To 100, Deduct</i>	-71.48	
			<i>For >100 To 200, Deduct</i>	-120.97	
			<i>For >200, Deduct</i>	-163.12	
			<i>For Steep Roof, Over 7 To 12, Add</i>	257.99	
07 32 16 00-0004	SQ		13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Custom Greens Corrugated	1,243.69	403.07
			<i>For >50 To 75, Deduct</i>	-17.50	
			<i>For >75 To 100, Deduct</i>	-50.78	
			<i>For >100 To 200, Deduct</i>	-88.43	
			<i>For >200, Deduct</i>	-121.71	
			<i>For Steep Roof, Over 7 To 12, Add</i>	257.99	
07 32 16 00-0005	SQ		13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Colors, Shakes	1,177.32	360.63
			<i>For >50 To 75, Deduct</i>	-18.24	
			<i>For >75 To 100, Deduct</i>	-49.95	
			<i>For >100 To 200, Deduct</i>	-86.22	
			<i>For >200, Deduct</i>	-117.94	
			<i>For Steep Roof, Over 7 To 12, Add</i>	230.84	
07 32 16 00-0006			Accessories ^(07 32 16)		
07 32 16 00-0007	EA		Ridge And Hip, 10" X 16-1/2", 8 LB Each For Concrete Tile Roof	6.24	
07 32 16 00-0008	EA		Rake, 6-1/2" X 16-3/4", 9 LB Each For Concrete Tile Roof	4.11	
07 32 16 00-0009	EA		Mansard Hip, 10" X 16-1/2", 9.2 LB Each For Concrete Tile Roof	6.20	
07 32 16 00-0010	EA		Hip Starter, 10" X 16-1/2", 10.5 LB Each For Concrete Tile Roof	7.11	
07 32 16 00-0011	EA		3 Or 4 Way Apex, 10" Each Side, 11.5 LB Each For Concrete Tile Roof	7.40	
07 34 Roofing Underlayment			^(07 30)		
07 34 00 00-0001			Mechanically Fastened, Roofing Underlayment ^(07 34) Note: Standard slope.		
07 34 00 00-0002	SQ		15 LB, Asphalt Saturated Organic Felt Roofing Underlayment, Mechanically Fastened	39.18	8.15
			<i>For Steep Roof, Over 7 To 12, Add</i>	5.22	
			<i>For >50 To 75, Deduct</i>	-0.91	
			<i>For >75 To 100, Deduct</i>	-2.01	
			<i>For >100 To 200, Deduct</i>	-3.33	
			<i>For >200, Deduct</i>	-4.83	
07 34 00 00-0003	SQ		30 LB, Asphalt Saturated Organic Felt Roofing Underlayment, Mechanically Fastened	60.65	11.21
			<i>For Steep Roof, Over 7 To 12, Add</i>	7.17	
			<i>For >50 To 75, Deduct</i>	-1.53	
			<i>For >75 To 100, Deduct</i>	-3.24	
			<i>For >100 To 200, Deduct</i>	-5.33	
			<i>For >200, Deduct</i>	-7.59	
07 34 00 00-0004	SQ		30 LB, Asphalt Saturated Organic Felt Shake Underlayment, Mechanically Fastened	67.85	11.21
			<i>For Steep Roof, Over 7 To 12, Add</i>	7.17	
			<i>For >50 To 75, Deduct</i>	-1.82	
			<i>For >75 To 100, Deduct</i>	-3.74	
			<i>For >100 To 200, Deduct</i>	-6.12	
			<i>For >200, Deduct</i>	-8.60	
07 34 00 00-0005	SQ		Fire Rated, Polypropylene Roofing Underlayment, Mechanically Fastened (Rex™ Synfelt)	74.79	16.98
			<i>For Steep Roof, Over 7 To 12, Add</i>	10.87	
			<i>For >50 To 75, Deduct</i>	-1.63	
			<i>For >75 To 100, Deduct</i>	-3.71	
			<i>For >100 To 200, Deduct</i>	-6.19	
			<i>For >200, Deduct</i>	-9.11	
07 34 00 00-0006	SQ		17 Mil, Fire Rated, High Temperature, Coated Woven Synthetic Roofing Underlayment, Mechanically Fastened (TITANIUM™ UDL 25)	83.32	16.98
			<i>For Steep Roof, Over 7 To 12, Add</i>	10.87	
			<i>For >50 To 75, Deduct</i>	-1.97	
			<i>For >75 To 100, Deduct</i>	-4.30	
			<i>For >100 To 200, Deduct</i>	-7.13	
			<i>For >200, Deduct</i>	-10.31	
07 34 00 00-0007	SQ		25 Mil, Fire Rated, High Temperature, Coated Woven Synthetic Roofing Underlayment, Mechanically Fastened (TITANIUM™ UDL 30)	97.36	16.98
			<i>For Steep Roof, Over 7 To 12, Add</i>	10.87	
			<i>For >50 To 75, Deduct</i>	-2.54	
			<i>For >75 To 100, Deduct</i>	-5.29	
			<i>For >100 To 200, Deduct</i>	-8.67	
			<i>For >200, Deduct</i>	-12.27	
07 34 00 00-0008	SQ		30 Mil, Fire Rated, High Temperature, Coated Woven Synthetic Roofing Underlayment, Mechanically Fastened (TITANIUM™ UDL 50)	90.34	16.98
			<i>For Steep Roof, Over 7 To 12, Add</i>	10.87	
			<i>For >50 To 75, Deduct</i>	-2.25	
			<i>For >75 To 100, Deduct</i>	-4.80	
			<i>For >100 To 200, Deduct</i>	-7.90	
			<i>For >200, Deduct</i>	-11.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 34 00 00-0009 Self-Adhering, Roofing Underlayment (07 34) Note: Standard slope.		
07 34 00 00-0010 SQ 48 Mil, Fire Rated, Polymeric Asphalt Surfaced, Fiberglass Mat Reinforced, Styrene-Butadiene-Styrene (SBS) Modified Roofing Underlayment, Self-Adhering (Owens Corning® WeatherLock® Mat)	157.77	20.60
For Steep Roof, Over 7 To 12, Add	13.18	
For >50 To 75, Deduct	-4.66	
For >75 To 100, Deduct	-9.19	
For >100 To 200, Deduct	-14.88	
For >200, Deduct	-20.44	
07 34 00 00-0011 SQ 60 Mil, Fire Rated, Granule Surfaced, Rubberized Asphalt Adhesive, Roofing Underlayment, Self-Adhering (Grace Basik®).....	239.21	20.60
For Steep Roof, Over 7 To 12, Add	13.18	
For >50 To 75, Deduct	-7.92	
For >75 To 100, Deduct	-14.89	
For >100 To 200, Deduct	-23.84	
For >200, Deduct	-31.84	
07 34 00 00-0012 SQ 53 Mil, Fire Rated, Granule Surfaced, Fiberglass Mat Reinforced, Styrene-Butadiene-Styrene (SBS) Modified Roofing Underlayment, Self-Adhering (Owens Corning® WeatherLock® G).....	167.85	20.60
For Steep Roof, Over 7 To 12, Add	13.18	
For >50 To 75, Deduct	-5.07	
For >75 To 100, Deduct	-9.90	
For >100 To 200, Deduct	-15.99	
For >200, Deduct	-21.85	
07 34 00 00-0013 SQ 65 Mil, Fire Rated, Polyester Non Woven Fabric Surfaced, Fiberglass Mat Reinforced, Styrene-Butadiene-Styrene (SBS) Modified Roofing Underlayment, Self Adhering (Owens Corning® WeatherLock® Specialty Tile And Metal).....	157.77	20.60
For Steep Roof, Over 7 To 12, Add	13.18	
For >50 To 75, Deduct	-4.66	
For >75 To 100, Deduct	-9.19	
For >100 To 200, Deduct	-14.88	
For >200, Deduct	-20.44	
07 34 00 00-0014 SQ 45 Mil, Fire Rated, High Temperature, Synthetic Polymer Surfaced, Modified Rubberized Asphalt, Roofing Underlayment, Self-Adhering (TITANIUM™ PSU-30)	227.46	20.60
For Steep Roof, Over 7 To 12, Add	13.18	
For >50 To 75, Deduct	-7.45	
For >75 To 100, Deduct	-14.07	
For >100 To 200, Deduct	-22.55	
For >200, Deduct	-30.20	
07 34 00 00-0015 SQ 25 Mil, Fire Rated, Embossed Surface, Rubberized Asphalt Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Select).....	190.66	20.60
For Steep Roof, Over 7 To 12, Add	13.18	
For >50 To 75, Deduct	-5.98	
For >75 To 100, Deduct	-11.49	
For >100 To 200, Deduct	-18.50	
For >200, Deduct	-25.05	
07 34 00 00-0016 SQ 40 Mil, Fire Rated, Embossed Surface, Rubberized Asphalt Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Ice And Water Shield®)	285.49	20.60
For Steep Roof, Over 7 To 12, Add	13.18	
For >50 To 75, Deduct	-9.77	
For >75 To 100, Deduct	-18.13	
For >100 To 200, Deduct	-28.93	
For >200, Deduct	-38.32	
07 34 00 00-0017 SQ 40 Mil, Fire Rated, High Temperature, Embossed Surface, Rubberized Asphalt Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Ice And Water Shield® HT)	327.03	20.60
For Steep Roof, Over 7 To 12, Add	13.18	
For >50 To 75, Deduct	-11.43	
For >75 To 100, Deduct	-21.04	
For >100 To 200, Deduct	-33.50	
For >200, Deduct	-44.14	
07 34 00 00-0018 SQ 30 Mil, Fire Rated, High Temperature, Fire Rated, Embossed Surface, Butyl Rubber Based Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Ultra)	482.87	20.60
For Steep Roof, Over 7 To 12, Add	13.18	
For >50 To 75, Deduct	-17.67	
For >75 To 100, Deduct	-31.95	
For >100 To 200, Deduct	-50.64	
For >200, Deduct	-65.95	

07 40 Roofing and Siding Panels (07)

07 41 Roof Panels (07 40)

Note: Includes standard fasteners, grommets, cleats for installation.

07 41 13 Metal Roof Panels (07 41)

07 41 13 00-0001 Exposed Fastener Metal Roofing (07 41 13)

Note: Includes 15 year warranty and all warranties are no dollar limit to include material and labor.

07 41 13 00-0002 Galvanized Exposed Fastener Metal Roofing (07 41 13 00-0001)

07 41 13 00-0003 Galvanized Steel Exposed Fastener Metal Roof Panels (07 41 13 00-0002)

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 41 Roof Panels**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0004 SF 18 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	9.04	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0005 SF 20 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	8.32	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0006 SF 22 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	7.82	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0007 SF 24 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	7.33	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0008 SF 26 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.92	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0009 SF 28 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.56	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0010 SF 30 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.42	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0011 Galvanized Exposed Fastener Metal Roof Accessories (07 41 13 00-0002)		
See CSI section 07 41 13 00-0038 for accessories.		
07 41 13 00-0012 LF Ridge Flashing For Galvanized Steel Exposed Fastener Roofing.....	29.34	3.23
For Steep Roof, Over 7 To 12, Add	4.18	
For Fluoropolymer (Kynar®) Coating, Add	1.63	
07 41 13 00-0013 LF 9" To 12" Girth, Eave Or Gable Flashing For Galvanized Steel Exposed Fastener Roofing.....	18.37	2.12
For Steep Roof, Over 7 To 12, Add	2.79	
For Fluoropolymer (Kynar®) Coating, Add	0.97	
07 41 13 00-0014 LF Valley Flashing For Galvanized Steel Exposed Fastener Roofing.....	35.74	3.23
For Steep Roof, Over 7 To 12, Add	4.18	
For Fluoropolymer (Kynar®) Coating, Add	2.27	
07 41 13 00-0015 LF Hip Flashing For Galvanized Steel Exposed Fastener Roofing.....	29.92	3.23
For Steep Roof, Over 7 To 12, Add	4.18	
For Fluoropolymer (Kynar®) Coating, Add	1.69	
07 41 13 00-0016 Aluminum Exposed Fastener Metal Roofing (07 41 13 00-0001)		
07 41 13 00-0017 Aluminum Exposed Fastener Metal Roof Panels (07 41 13 00-0016)		
07 41 13 00-0018 SF 0.0155", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	6.49	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0019 SF 0.018", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	6.74	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0020 SF 0.024", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	7.32	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0021 SF 0.032", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	8.10	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0022 SF 0.040", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	8.88	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0023 SF 0.050", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	9.86	3.10
For Fluoropolymer (Kynar®) Coating, Add	1.38	
For Steep Roof, Over 7 To 12, Add	1.59	
07 41 13 00-0024 Aluminum Exposed Fastener Metal Roof Accessories (07 41 13 00-0016)		
07 41 13 00-0025 LF Ridge Flashing For Aluminum Exposed Fastener Metal Roofing.....	33.26	3.23
For Steep Roof, Over 7 To 12, Add	4.18	
For Fluoropolymer (Kynar®) Coating, Add	2.02	
07 41 13 00-0026 LF 9" To 12" Girth, Eave Or Gable Flashing For Aluminum Exposed Fastener Metal Roofing.....	20.63	2.24
For Steep Roof, Over 7 To 12, Add	2.79	
For Fluoropolymer (Kynar®) Coating, Add	1.19	
07 41 13 00-0027 LF Valley Flashing For Aluminum Exposed Fastener Metal Roofing.....	41.26	3.23
For Steep Roof, Over 7 To 12, Add	4.18	
For Fluoropolymer (Kynar®) Coating, Add	2.82	
07 41 13 00-0028 LF Hip Flashing For Aluminum Exposed Fastener Metal Roofing.....	33.99	3.23
For Steep Roof, Over 7 To 12, Add	4.18	
For Fluoropolymer (Kynar®) Coating, Add	2.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0029 Standing Seam Roofs <small>(07 41 13)</small> Note: Includes all profiles of vertical leg and batten style standing seam roofing. Includes all clips, neoprene closures, metal closures, battens, tape sealer, tube sealant, fasteners, vent material, panel starters and cleats. Based on Garland R-Mer Clad or R-Mer Seam architectural roofing, R-Mer Loc architectural/structural roofing, and R-Mer Span structural roofing. Architectural roofing requires a solid substrate and underlayment, requires a minimum 3:12 pitch, and includes a 20 year no dollar limit warranty. Architectural/structural roofing does not require a solid substrate or underlayment, requires a minimum 3:12 pitch, and includes a 25 year no dollar limit warranty. Structural roofing does not require a solid substrate or underlayment, requires a minimum 1/4" per foot slope, and includes a 25 year no dollar limit warranty.		
07 41 13 00-0030 Galvanized Steel Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0029)</small> Note: All steel is galvanized G90 rated or galvalume®. Factory paint finish is Kynar 500®, Hylar 5000® or equal polyvinylidene fluoride (PVDF) finish.		
07 41 13 00-0031 Galvanized Steel Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0030)</small>		
07 41 13 00-0032 SF Architectural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing 14.01 <i>For Steep Roof, Over 6 To 12, Add</i> 1.98 <i>For Panels <16" Wide, Add</i> 1.92 <i>For 140 MPH Wind Load, Add</i> 0.81 <i>For Up To 1,500, Add</i> 3.50 <i>For >1,500 To 5,000, Add</i> 2.10 <i>For >5,000 To 10,000, Add</i> 0.35	14.01	3.30
07 41 13 00-0033 SF Architectural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing 14.71 <i>For Steep Roof, Over 6 To 12, Add</i> 1.98 <i>For Panels <16" Wide, Add</i> 1.95 <i>For 140 MPH Wind Load, Add</i> 0.82 <i>For Up To 1,500, Add</i> 3.68 <i>For >1,500 To 5,000, Add</i> 2.21 <i>For >5,000 To 10,000, Add</i> 0.37	14.71	3.30
07 41 13 00-0034 SF Architectural/Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing 13.40 <i>For Steep Roof, Over 6 To 12, Add</i> 1.98 <i>For Panels <16" Wide, Add</i> 1.89 <i>For 140 MPH Wind Load, Add</i> 0.80 <i>For Up To 1,500, Add</i> 3.35 <i>For >1,500 To 5,000, Add</i> 2.01 <i>For >5,000 To 10,000, Add</i> 0.34	13.40	3.30
07 41 13 00-0035 SF Architectural/Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing 13.64 <i>For Steep Roof, Over 6 To 12, Add</i> 1.98 <i>For Panels <16" Wide, Add</i> 1.90 <i>For 140 MPH Wind Load, Add</i> 0.80 <i>For Up To 1,500, Add</i> 3.41 <i>For >1,500 To 5,000, Add</i> 2.05 <i>For >5,000 To 10,000, Add</i> 0.34	13.64	3.30
07 41 13 00-0036 SF Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing 13.92 <i>For Steep Roof, Over 6 To 12, Add</i> 1.98 <i>For Panels <16" Wide, Add</i> 1.92 <i>For 140 MPH Wind Load, Add</i> 0.81 <i>For Up To 1,500, Add</i> 3.48 <i>For >1,500 To 5,000, Add</i> 2.09 <i>For >5,000 To 10,000, Add</i> 0.35	13.92	3.30
07 41 13 00-0037 SF Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing 14.93 <i>For Steep Roof, Over 6 To 12, Add</i> 1.98 <i>For Panels <16" Wide, Add</i> 1.97 <i>For 140 MPH Wind Load, Add</i> 0.83 <i>For Up To 1,500, Add</i> 3.73 <i>For >1,500 To 5,000, Add</i> 2.24 <i>For >5,000 To 10,000, Add</i> 0.37	14.93	3.30
07 41 13 00-0038 Accessories For Galvanized Steel Standing Seam Roofing <small>(07 41 13 00-0030)</small>		
07 41 13 00-0039 LF Ridge Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing 30.97 <i>For Steep Roof, Over 6 To 12, Add</i> 3.92 <i>For 140 MPH Wind Load, Add</i> 1.66	30.97	3.23
07 41 13 00-0040 LF 9" To 12" Girth, Eave Or Gable Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing 19.33 <i>For Steep Roof, Over 6 To 12, Add</i> 2.61 <i>For 140 MPH Wind Load, Add</i> 1.08	19.33	2.24
07 41 13 00-0041 LF Valley Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing 38.01 <i>For Steep Roof, Over 6 To 12, Add</i> 3.92 <i>For 140 MPH Wind Load, Add</i> 1.80	38.01	3.23
07 41 13 00-0042 LF Hip Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing 31.61 <i>For Steep Roof, Over 6 To 12, Add</i> 3.92 <i>For 140 MPH Wind Load, Add</i> 1.68	31.61	3.23
07 41 13 00-0043 Aluminum Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0029)</small> Note: Factory paint finish is Kynar 500®, Hylar 5000® or equal polyvinylidene fluoride (PVDF) finish.		
07 41 13 00-0044 Aluminum Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0043)</small>		
07 41 13 00-0045 SF Architectural 0.032" Aluminum Standing Seam Concealed Fastener Roofing 14.50 <i>For Steep Roof, Over 6 To 12, Add</i> 1.98 <i>For Panels <16" Wide, Add</i> 1.94 <i>For 140 MPH Wind Load, Add</i> 0.82 <i>For Up To 1,500, Add</i> 3.63 <i>For >1,500 To 5,000, Add</i> 2.18 <i>For >5,000 To 10,000, Add</i> 0.36	14.50	3.30

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 41 Roof Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0046	SF		Architectural 0.040" Aluminum Standing Seam Concealed Fastener Roofing.....	15.10	3.30
			<i>For Steep Roof, Over 6 To 12, Add</i>	1.98	
			<i>For Panels <16" Wide, Add</i>	1.97	
			<i>For 140 MPH Wind Load, Add</i>	0.83	
			<i>For Up To 1,500, Add</i>	3.78	
			<i>For >1,500 To 5,000, Add</i>	2.27	
			<i>For >5,000 To 10,000, Add</i>	0.38	
07 41 13 00-0047	SF		Architectural/Structural Or Structural 0.032" Aluminum Standing Seam Concealed Fastener Roofing	14.16	3.30
			<i>For Steep Roof, Over 6 To 12, Add</i>	1.98	
			<i>For Panels <16" Wide, Add</i>	1.93	
			<i>For 140 MPH Wind Load, Add</i>	0.81	
			<i>For Up To 1,500, Add</i>	3.54	
			<i>For >1,500 To 5,000, Add</i>	2.12	
			<i>For >5,000 To 10,000, Add</i>	0.35	
07 41 13 00-0048	SF		Architectural/Structural Or Structural 0.040" Aluminum Standing Seam Concealed Fastener Roofing	15.26	3.30
			<i>For Steep Roof, Over 6 To 12, Add</i>	1.98	
			<i>For Panels <16" Wide, Add</i>	1.98	
			<i>For 140 MPH Wind Load, Add</i>	0.83	
			<i>For Up To 1,500, Add</i>	3.82	
			<i>For >1,500 To 5,000, Add</i>	2.29	
			<i>For >5,000 To 10,000, Add</i>	0.38	
07 41 13 00-0049			Accessories For Aluminum Standing Seam Roofing (07 41 13 00-0043)		
07 41 13 00-0050	LF		Ridge Flashing For Aluminum Standing Seam Concealed Fastener Roofing.....	35.28	3.23
			<i>For Steep Roof, Over 6 To 12, Add</i>	3.92	
			<i>For 140 MPH Wind Load, Add</i>	1.75	
07 41 13 00-0051	LF		9" To 12" Girth, Eave Or Gable Flashing For Aluminum Standing Seam Concealed Fastener Roofing	21.82	2.24
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.61	
			<i>For 140 MPH Wind Load, Add</i>	1.13	
07 41 13 00-0052	LF		Valley Flashing For Aluminum Standing Seam Concealed Fastener Roofing	44.08	3.23
			<i>For Steep Roof, Over 6 To 12, Add</i>	3.92	
			<i>For 140 MPH Wind Load, Add</i>	1.93	
07 41 13 00-0053	LF		Hip Flashing For Aluminum Standing Seam Concealed Fastener Roofing.....	36.09	3.23
			<i>For Steep Roof, Over 6 To 12, Add</i>	3.92	
			<i>For 140 MPH Wind Load, Add</i>	1.77	
07 41 13 00-0054			Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0029)		
07 41 13 00-0055			Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0054)		
07 41 13 00-0056	SF		Architectural 24 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing	26.97	3.95
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.97	
			<i>For Panels <16" Wide, Add</i>	3.18	
			<i>For 140 MPH Wind Load, Add</i>	1.33	
			<i>For Up To 1,500, Add</i>	6.74	
			<i>For >1,500 To 5,000, Add</i>	4.05	
			<i>For >5,000 To 10,000, Add</i>	0.67	
07 41 13 00-0057	SF		Architectural 22 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing	30.60	3.95
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.97	
			<i>For Panels <16" Wide, Add</i>	3.36	
			<i>For 140 MPH Wind Load, Add</i>	1.40	
			<i>For Up To 1,500, Add</i>	7.65	
			<i>For >1,500 To 5,000, Add</i>	4.59	
			<i>For >5,000 To 10,000, Add</i>	0.77	
07 41 13 00-0058	SF		Architectural 24 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing	34.91	3.95
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.97	
			<i>For Panels <16" Wide, Add</i>	3.58	
			<i>For 140 MPH Wind Load, Add</i>	1.49	
			<i>For Up To 1,500, Add</i>	8.73	
			<i>For >1,500 To 5,000, Add</i>	5.24	
			<i>For >5,000 To 10,000, Add</i>	0.87	
07 41 13 00-0059	SF		Architectural 22 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing	40.43	3.95
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.97	
			<i>For Panels <16" Wide, Add</i>	3.85	
			<i>For 140 MPH Wind Load, Add</i>	1.60	
			<i>For Up To 1,500, Add</i>	10.11	
			<i>For >1,500 To 5,000, Add</i>	6.06	
			<i>For >5,000 To 10,000, Add</i>	1.01	
07 41 13 00-0060			Accessories For Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0054)		
07 41 13 00-0061	LF		Ridge Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing.....	81.12	3.61
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.33	
			<i>For 140 MPH Wind Load, Add</i>	2.78	
07 41 13 00-0062	LF		9" To 12" Girth, Eave Or Gable Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing	43.97	2.36
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.87	
			<i>For 140 MPH Wind Load, Add</i>	1.65	
07 41 13 00-0063	LF		Valley Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing.....	111.54	3.61
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.29	
			<i>For 140 MPH Wind Load, Add</i>	3.37	
07 41 13 00-0064	LF		Hip Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing	83.53	3.61
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.33	
			<i>For 140 MPH Wind Load, Add</i>	2.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 41 13 00-0065 Metal Roof Surfacing (07 41 13)

07 41 13 00-0066	SF	Acrylic, Metal Roof Primer, One Coat		0.48	
		<i>For Steep Roof, Over 7 To 12, Add</i>		0.07	
07 41 13 00-0067	SF	Acrylic Elastomeric, Surface Or Base Coating For Metal Roofing, One Coat		0.72	
		<i>Note: 55% solids by volume.</i>			
		<i>For Steep Roof, Over 7 To 12, Add</i>		0.07	

07 41 33 Plastic Roof Panels (07 41)

07 41 33 00-0001 Polyvinyl Chloride (PVC) Roofing Panels (07 41 33)

07 41 33 00-0002 Polyvinyl Chloride (PVC) Roofing Panels (07 41 33 00-0001)

07 41 33 00-0003	SF	Solid Polyvinyl Chloride (PVC) Roofing Panels, 8" Wide		6.87	2.27
07 41 33 00-0004	SF	Solid Polyvinyl Chloride (PVC) Roofing Panels, 10" Wide		6.59	2.04
07 41 33 00-0005	SF	Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 8" Wide		7.13	2.27
07 41 33 00-0006	SF	Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 10" Wide		6.81	2.04

07 41 33 00-0007 Polyvinyl Chloride (PVC) Roofing Accessories (07 41 33 00-0001)

07 41 33 00-0008	LF	1" "J" Channel, Starter Strip Trim		4.16	1.70
07 41 33 00-0009	LF	3-1/2" "J" Channel, Starter Strip Trim		6.14	1.70
07 41 33 00-0010	LF	Outside Corner Post, 7/8" Pocket		6.71	1.70
07 41 33 00-0011	LF	Inside Corner Post, 7/8" Pocket		5.17	1.70

07 41 33 00-0012 Fiberglass Roofing Panel (07 41 33)

07 41 33 00-0013 Corrugated Panels (07 41 33 00-0012)

07 41 33 00-0014	SF	8 Ounce Corrugated Fiberglass Panel		6.41	1.81
07 41 33 00-0015	SF	12 Ounce Corrugated Fiberglass Panel		7.31	1.81

07 42 Wall Panels (07 40)

07 42 13 Metal Wall Panels (07 42)

07 42 13 19 Insulated Metal Wall Panels (07 42 13)

07 42 13 19-0001 Insulated Panels For Sash/Window Replacement (07 42 13 19)

<i>Note: Porcelain or polymer finish on aluminum panel with polystyrene core.</i>					
07 42 13 19-0002	SF	1" Insulated Panel For Sash Or Window Replacement		22.40	4.85
		<i>For Non-Insulated Panels, Deduct</i>		-3.16	
07 42 13 19-0003	SF	1-1/4" Insulated Panel For Sash Or Window Replacement		24.31	5.45
		<i>For Non-Insulated Panels, Deduct</i>		-3.37	
07 42 13 19-0004	SF	1-3/4" Insulated Panel For Sash Or Window Replacement		26.01	6.06
		<i>For Non-Insulated Panels, Deduct</i>		-3.59	
07 42 13 19-0005	SF	2-1/4" Insulated Panel For Sash Or Window Replacement		27.86	6.30
		<i>For Non-Insulated Panels, Deduct</i>		-3.81	
07 42 13 19-0006	SF	3-1/4" Insulated Panel For Sash Or Window Replacement		31.47	6.91
		<i>For Non-Insulated Panels, Deduct</i>		-4.43	
07 42 13 19-0007	SF	4-1/4" Insulated Panel For Sash Or Window Replacement		36.39	7.64
		<i>For Non-Insulated Panels, Deduct</i>		-5.31	

07 42 13 23 Metal Composite Material Wall Panels (07 42 13)

07 42 13 23-0001 24 Gauge, Galvanized Steel Insulated Tongue And Groove Metal Siding Panels (07 42 13 23)

<i>Note: G-90 galvanized steel, 24 gauge exterior face and 24 gauge interior liner. Galvalume® AZ-55 coating designation with texture. Non-CFC polyurethane foam core. Standard color on exterior and interior panels. CF Mesa Profile wall panels as manufactured by Metl-Span Corporation.</i>					
07 42 13 23-0002	SF	2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels		23.27	2.86
		<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>		0.24	
		<i>For Premium Exterior Colors, Add</i>		0.12	
07 42 13 23-0003	SF	2-1/2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels		26.15	3.23
		<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>		0.24	
		<i>For Premium Exterior Colors, Add</i>		0.12	
07 42 13 23-0004	SF	3" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels		28.59	3.67
		<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>		0.24	
		<i>For Premium Exterior Colors, Add</i>		0.12	
07 42 13 23-0005	SF	4" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels		31.94	4.85
		<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>		0.24	
		<i>For Premium Exterior Colors, Add</i>		0.12	

07 42 63 Fabricated Wall Panel Assemblies (07 42)

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 42 Wall Panels**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 42 63 00-0001	Insulated Freezer And Chiller Panels (07 42 63) Note: Excludes suspension system for ceiling support.		
07 42 63 00-0002	Polyurethane Sandwich Panel (07 42 63 00-0001) Note: With 22 gauge galvanized sheet metal face excludes painting.		
07 42 63 00-0003	SF 2" 22 Gauge Freezer Panel Sheet Metal Both Faces	26.94	2.30
07 42 63 00-0004	SF 3" 22 Gauge Freezer Panel Sheet Metal Both Faces	28.54	2.30
07 42 63 00-0005	SF 4" 22 Gauge Freezer Panel Sheet Metal Both Faces	34.00	2.30
07 42 63 00-0006	SF 5" 22 Gauge Freezer Panel Sheet Metal Both Faces	36.80	2.44
07 42 63 00-0007	SF 6" 22 Gauge Freezer Panel Sheet Metal Both Faces	39.09	2.44
07 42 63 00-0008	SF 2" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	24.15	1.90
07 42 63 00-0009	SF 3" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	26.29	1.90
07 42 63 00-0010	SF 4" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	31.71	2.03
07 42 63 00-0011	SF 5" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	30.75	2.03
07 42 63 00-0012	SF 6" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	36.20	2.03
07 42 63 00-0013	Polyurethane Sandwich Panel (07 42 63 00-0001) Note: With .040 aluminum baked enamel finish.		
07 42 63 00-0014	SF 2" Freezer Panel 0.040" Aluminum Finish Both Faces	11.64	2.30
07 42 63 00-0015	SF 3" Freezer Panel 0.040" Aluminum Finish Both Faces	12.28	2.30
07 42 63 00-0016	SF 4" Freezer Panel 0.040" Aluminum Finish Both Faces	14.02	2.30
07 42 63 00-0017	SF 5" Freezer Panel 0.040" Aluminum Finish Both Faces	15.12	2.44
07 42 63 00-0018	SF 6" Freezer Panel 0.040" Aluminum Finish Both Faces	15.93	2.44
07 42 63 00-0019	SF 2" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	10.34	1.90
07 42 63 00-0020	SF 3" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	10.99	1.90
07 42 63 00-0021	SF 4" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	11.71	2.03
07 42 63 00-0022	SF 5" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	13.44	2.03
07 42 63 00-0023	SF 6" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	14.52	2.03
07 42 93	Soffit Panels (07 42)		
07 42 93 00-0001	Aluminum Soffit And Fascia (07 42 93) Note: Excludes J-channel.		
07 42 93 00-0002	LF 6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	4.86	1.70
	For 0.015" Thick, Deduct	-0.09	
07 42 93 00-0003	LF 10" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	5.99	1.79
	For 0.015" Thick, Deduct	-0.16	
07 42 93 00-0004	LF 1' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	6.57	1.83
	For 0.015" Thick, Deduct	-0.21	
07 42 93 00-0005	LF 1'-6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	8.21	1.93
	For 0.015" Thick, Deduct	-0.30	
07 42 93 00-0006	LF 2' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	10.04	2.11
	For 0.015" Thick, Deduct	-0.42	
07 42 93 00-0007	LF 3' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	13.37	2.33
	For 0.015" Thick, Deduct	-0.62	
07 42 93 00-0008	LF 4' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	16.75	2.57
	For 0.015" Thick, Deduct	-0.83	
07 42 93 00-0009	LF 5' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	20.15	2.82
	For 0.015" Thick, Deduct	-1.06	
07 42 93 00-0010	LF 4" Exposure, 0.024" Thick, Aluminum Fascia	5.69	1.66
07 42 93 00-0011	LF 6" Exposure, 0.024" Thick, Aluminum Fascia	6.23	1.70
07 42 93 00-0012	LF 8" Exposure, 0.024" Thick, Aluminum Fascia	7.30	1.75
07 42 93 00-0013	LF 10" Exposure, 0.024" Thick, Aluminum Fascia	8.45	1.79
07 46	Siding (07 40)		
07 46 16	Aluminum Siding (07 46) Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 16 00-0001	Aluminum Coil Stock Cladding (07 46 16) Note: Per SF of board, includes overlappage.		
07 46 16 00-0002	SF 0.016" Thick, Aluminum Clad Siding	13.43	4.52
07 46 16 00-0003	SF 0.019" Thick, Aluminum Clad Siding	13.59	4.52
07 46 16 00-0004	SF 0.024" Thick, Aluminum Clad Siding	13.86	4.52
07 46 16 00-0005	Aluminum Siding Panels (07 46 16)		
07 46 16 00-0006	Corrugated Aluminum Siding Panels (07 46 16 00-0005) Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 16 00-0007	SF 0.019", Painted Finish, Corrugated Aluminum Siding Panel	9.26	2.49
07 46 16 00-0008	SF 0.021", Painted Finish, Corrugated Aluminum Siding Panel	9.64	2.49
07 46 16 00-0009	SF 0.024", Painted Finish, Corrugated Aluminum Siding Panel	10.83	2.49
07 46 16 00-0010	SF 0.032", Painted Finish, Corrugated Aluminum Siding Panel	13.16	2.49
07 46 16 00-0011	V- Beam Aluminum Siding Panels (07 46 16 00-0005) Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 16 00-0012	SF 0.032", Painted Finish, V- Beam Aluminum Siding Panel	13.06	2.49
07 46 16 00-0013	SF 0.040", Painted Finish, V- Beam Aluminum Siding Panel	14.63	2.49



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 16 00-0014 SF 0.050", Painted Finish, V- Beam Aluminum Siding Panel	18.33	2.49
07 46 16 00-0015 Box Ribbed Aluminum Siding Panels (07 46 16 00-0005) Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 16 00-0016 SF 0.032", Painted Finish, Box Ribbed Aluminum Siding Panel	13.75	2.49
07 46 16 00-0017 SF 0.040", Painted Finish, Box Ribbed Aluminum Siding Panel	15.25	2.49
07 46 16 00-0018 SF 0.050", Painted Finish, Box Ribbed Aluminum Siding Panel	16.18	2.49
07 46 16 00-0019 Aluminum Siding Accessories (07 46 16)		
07 46 16 00-0020 LF 3/8" Pocket, Aluminum J-Channel	3.78	1.58
07 46 16 00-0021 LF 1/2" Pocket, Aluminum J-Channel	3.78	1.58
07 46 16 00-0022 LF 3/4" Pocket, Aluminum J-Channel	4.44	1.58
07 46 16 00-0023 LF 3/8" Pocket, Aluminum F-Channel	4.09	1.58
07 46 16 00-0024 LF 1/2" Pocket, Aluminum F-Channel	4.09	1.58
07 46 19 Steel Siding (07 46) Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 19 00-0001 Steel Siding Panels (07 46 19)		
07 46 19 00-0002 Corrugated Steel Siding Panels (07 46 19 00-0001) Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 19 00-0003 SF 20 Gauge, Painted Finish, Corrugated Steel Siding Panel	12.87	2.49
<i>For Galvanized Instead Of Painted Steel, Add</i>	1.97	
07 46 19 00-0004 SF 22 Gauge, Painted Finish, Corrugated Steel Siding Panel	11.85	2.49
<i>For Galvanized Instead Of Painted Steel, Add</i>	1.72	
07 46 19 00-0005 SF 24 Gauge, Painted Finish, Corrugated Steel Siding Panel	11.60	2.49
<i>For Galvanized Instead Of Painted Steel, Add</i>	1.66	
07 46 19 00-0006 SF 26 Gauge, Painted Finish, Corrugated Steel Siding Panel	8.60	2.49
<i>For Galvanized Instead Of Painted Steel, Add</i>	0.91	
07 46 19 00-0007 SF 28 Gauge, Painted Finish, Corrugated Steel Siding Panel	8.39	2.49
<i>For Galvanized Instead Of Painted Steel, Add</i>	0.85	
07 46 19 00-0008 SF 30 Gauge, Painted Finish, Corrugated Steel Siding Panel	8.25	2.49
<i>For Galvanized Instead Of Painted Steel, Add</i>	0.82	
07 46 19 00-0009 Box Ribbed Steel Siding Panels (07 46 19 00-0001) Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 19 00-0010 SF 20 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	12.09	2.49
<i>For Galvanized Instead Of Painted Steel, Add</i>	1.78	
07 46 19 00-0011 SF 22 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	11.64	2.49
<i>For Galvanized Instead Of Painted Steel, Add</i>	1.67	
07 46 19 00-0012 SF 24 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	11.33	2.49
<i>For Galvanized Instead Of Painted Steel, Add</i>	1.59	
07 46 19 00-0013 SF 26 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	10.82	2.49
<i>For Galvanized Instead Of Painted Steel, Add</i>	1.46	
07 46 19 00-0014 SF 28 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	9.74	2.49
<i>For Galvanized Instead Of Painted Steel, Add</i>	1.19	
07 46 19 00-0015 Clapboard Steel Siding Panels (07 46 19 00-0001) Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 19 00-0016 SF 29 Gauge, Painted Finish, Clapboard Steel Siding Panel	9.61	1.24
07 46 23 Wood Siding (07 46) Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 23 00-0001 Wood Lap Siding (07 46 23)		
07 46 23 00-0002 LF 8" Wide Rough Sawn Cedar Lap Siding	4.31	1.65
07 46 23 00-0003 LF 10" Wide Rough Sawn Cedar Lap Siding	4.86	1.76
07 46 23 00-0004 LF 12" Wide Rough Sawn Cedar Lap Siding	5.43	1.87
07 46 23 00-0005 LF 6" To 8" Wide Southern Yellow Pine Lap Siding, D Grade	4.61	1.65
07 46 23 00-0006 LF 6" To 8" Wide Spruce Lap Siding, #2 Or Better	5.13	1.65
07 46 23 00-0007 LF 6" To 8" Wide Western Red Cedar, B Grade Lap Siding	6.23	1.65
07 46 23 00-0008 LF 6" To 8" Wide Western Red Cedar, A Grade Lap Siding	6.67	1.65
07 46 23 00-0009 LF 6" To 8" Wide Clear Heart Redwood Lap Siding	6.05	1.65
07 46 23 00-0010 LF 1" x 8" Cedar Round Or Flat Front Siding, Log Cabin	4.71	1.76
07 46 23 00-0011 LF 1" x 8" Cedar Beveled Siding, Channel, Rustic	4.71	1.76
07 46 23 00-0012 Tongue And Groove Siding (07 46 23)		
07 46 23 00-0013 SF 1" x 6" Tongue And Groove Southern Yellow Pine Siding	4.31	1.65
07 46 23 00-0014 SF 1" x 8" Tongue And Groove Southern Yellow Pine Siding	4.77	1.65
07 46 23 00-0015 SF 1" x 6" 105 Southern Yellow Pine Siding	4.42	1.65
07 46 23 00-0016 SF 1" x 8" 105 Southern Yellow Pine Siding	5.04	1.65
07 46 29 Plywood Siding (07 46) Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 46 Siding**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 29 00-0001		T-111 Siding (07 46 29)		
07 46 29 00-0002	SF	5/8" T-111, Fine Grade Siding, Paint Ready Applied To Blackboard / Stud..... <i>For Pressure Treated, Add</i>	3.38 0.18	0.85
07 46 33		Plastic Siding (07 46)		
		Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 33 00-0001		Vinyl Siding (07 46 33)		
		Note: Includes standard manufacturer's colors.		
07 46 33 00-0002		Vinyl Siding Panels (07 46 33 00-0001)		
		Note: Excludes J-channels, starter strips and trim.		
07 46 33 00-0003		Horizontal Vinyl Siding Panels (07 46 33 00-0002)		
		Note: Includes single, double or triple profiles. Includes traditional clapboard or dutch lap styles.		
07 46 33 00-0004	SF	7" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	5.59 -0.21 -0.09 0.67 0.07	2.07
07 46 33 00-0005	SF	8" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	5.35 -0.21 -0.09 0.67 0.07	1.95
07 46 33 00-0006	SF	9" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	5.17 -0.21 -0.09 0.67 0.07	1.86
07 46 33 00-0007	SF	10" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	4.98 -0.21 -0.09 0.67 0.07	1.77
07 46 33 00-0008	SF	12" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	4.74 -0.21 -0.09 0.67 0.07	1.64
07 46 33 00-0009		Vertical Vinyl Siding Panels (07 46 33 00-0002)		
07 46 33 00-0010	SF	7" Exposure, 0.048" Thick, Board And Batten, Vinyl Siding Panel..... <i>For Manufacturer's Custom Colors, Add</i>	6.70 0.13	2.07
07 46 33 00-0011		Vinyl Siding Accessories (07 46 33 00-0001)		
07 46 33 00-0012	LF	3/4" Pocket, Outside Corner Post For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	6.84 0.18	1.58
07 46 33 00-0013	LF	1-1/8" Pocket, Outside Corner Post For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	12.42 0.46	1.58
07 46 33 00-0014	LF	3/4" Pocket, Inside Corner Post For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	5.43 0.11	1.58
07 46 33 00-0015	LF	1-1/8" Pocket, Inside Corner Post For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	6.61 0.17	1.58
07 46 33 00-0016	LF	3/8" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	4.05 0.06	1.58
07 46 33 00-0017	LF	1/2" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	3.78 0.04	1.58
07 46 33 00-0018	LF	5/8" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	3.72 0.04	1.58
07 46 33 00-0019	LF	3/4" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	3.90 0.05	1.58
07 46 33 00-0020	LF	1" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	4.62 0.07	1.58
07 46 33 00-0021	LF	1-1/4" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	5.03 0.09	1.58
07 46 33 00-0022	LF	2-1/2" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	5.63 0.09	1.58
07 46 33 00-0023	LF	1/2" Pocket, F-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	3.83 0.07	1.58
07 46 33 00-0024	LF	3/4" Pocket, 3-1/2" Lineal Trim For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	8.70 0.22	2.19
07 46 33 00-0025	LF	3/4" Pocket, 5" Lineal Trim For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	9.09 0.24	2.19
07 46 33 00-0026	LF	1-1/8" Pocket, 3-1/2" Lineal Trim For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	9.96 0.28	2.19
07 46 33 00-0027	LF	3/8" Pocket, 1-7/8" H-Mold For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	5.21 0.10	1.58
07 46 33 00-0028	LF	Vinyl Starter Strip For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	6.44 0.16	1.58
07 46 33 00-0029	LF	Undersill Trim For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	5.55 0.12	1.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 33 00-0030 Vinyl Soffit And Fascia <small>(07 46 33 00-0001)</small> Note: Excludes J-channel.		
07 46 33 00-0031 LF 6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	4.73	1.70
For 0.038" Thick, Deduct	-0.59	
For 0.040" Thick, Deduct	-0.49	
For Manufacturer's Custom Colors, Add	0.07	
07 46 33 00-0032 LF 10" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	5.77	1.79
For 0.038" Thick, Deduct	-0.99	
For 0.040" Thick, Deduct	-0.83	
For Manufacturer's Custom Colors, Add	0.11	
07 46 33 00-0033 LF 1' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	6.29	1.83
For 0.038" Thick, Deduct	-1.21	
For 0.040" Thick, Deduct	-1.00	
For Manufacturer's Custom Colors, Add	0.13	
07 46 33 00-0034 LF 1'-6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	7.80	1.93
For 0.038" Thick, Deduct	-1.80	
For 0.040" Thick, Deduct	-1.52	
For Manufacturer's Custom Colors, Add	0.20	
07 46 33 00-0035 LF 2' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	9.50	2.11
For 0.038" Thick, Deduct	-2.42	
For 0.040" Thick, Deduct	-2.03	
For Manufacturer's Custom Colors, Add	0.26	
07 46 33 00-0036 LF 3' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	12.55	2.33
For 0.038" Thick, Deduct	-3.63	
For 0.040" Thick, Deduct	-3.03	
For Manufacturer's Custom Colors, Add	0.40	
07 46 33 00-0037 LF 4' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	15.66	2.57
For 0.038" Thick, Deduct	-4.84	
For 0.040" Thick, Deduct	-4.06	
For Manufacturer's Custom Colors, Add	0.53	
07 46 33 00-0038 LF 5' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	18.79	2.82
For 0.038" Thick, Deduct	-6.05	
For 0.040" Thick, Deduct	-5.06	
For Manufacturer's Custom Colors, Add	0.66	
07 46 33 00-0039 LF 4" Exposure, Vinyl Fascia.....	4.91	1.66
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0040 LF 6" Exposure, Vinyl Fascia.....	5.45	1.70
For Manufacturer's Custom Colors, Add	0.10	
07 46 33 00-0041 LF 8" Exposure, Vinyl Fascia.....	5.39	1.75
For Manufacturer's Custom Colors, Add	0.10	
07 46 33 00-0042 LF 10" Exposure, Vinyl Fascia.....	6.15	1.79
For Manufacturer's Custom Colors, Add	0.13	
07 46 33 00-0043 Fiberglass Siding <small>(07 46 33)</small>		
07 46 33 00-0044 Corrugated Panels <small>(07 46 33 00-0043)</small>		
07 46 33 00-0045 SF 6 Ounce Corrugated Fiberglass Panels.....	6.79	2.45
07 46 33 00-0046 SF 8 Ounce Corrugated Fiberglass Panels.....	7.17	2.19
07 46 33 00-0047 SF 12 Ounce Corrugated Fiberglass Panels.....	7.86	2.19
07 46 33 00-0048 Flat Panels <small>(07 46 33 00-0043)</small>		
07 46 33 00-0049 SF 6 Ounce Flat Fiberglass Panels.....	6.55	2.19
07 46 33 00-0050 SF 8 Ounce Flat Fiberglass Panels.....	7.17	2.19
07 46 46 Fiber-Cement Siding <small>(07 46)</small> Note: Smooth or patterns. Includes sealer and primer.		
07 46 46 00-0001 5/16" Thick, Fiber Cement Lap Siding <small>(07 46 46)</small>		
07 46 46 00-0002 SF 5-1/4" Board with 4" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	7.21	2.57
07 46 46 00-0003 SF 6-1/4" Board with 5" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.86	2.45
07 46 46 00-0004 SF 7-1/4" Board with 6" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.71	2.38
07 46 46 00-0005 SF 8-1/4" Board with 7" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.55	2.31
07 46 46 00-0006 SF 9-1/2" Board with 8" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.26	2.19
07 46 46 00-0007 SF 12" Board with 10-3/4" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	5.97	2.07
07 46 46 00-0008 LF Starter Strip, Fiber Cement Lap Siding.....	1.57	0.61
07 46 46 00-0009 Fiber Cement Shingle Siding <small>(07 46 46)</small>		
07 46 46 00-0010 SF Fiber Cement Shingle Siding.....	10.89	2.25
07 46 46 00-0011 Fiber Cement Vertical Panel Siding <small>(07 46 46)</small>		
07 46 46 00-0012 SF Fiber Cement Vertical Panel Siding.....	5.30	1.83
07 46 46 00-0013 Fiber Cement Trim Boards <small>(07 46 46)</small>		
07 46 46 00-0014 7/16" Thick, Fiber Cement Trim Boards <small>(07 46 46 00-0013)</small>		

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 46 Siding**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	07 46 46 00-0015	LF	4" Wide, 7/16" Thick, Fiber Cement Trim Board	3.46	1.22
	07 46 46 00-0016	LF	6" Wide, 7/16" Thick, Fiber Cement Trim Board	4.38	1.34
	07 46 46 00-0017	LF	8" Wide, 7/16" Thick, Fiber Cement Trim Board	5.25	1.46
	07 46 46 00-0018	LF	12" Wide, 7/16" Thick, Fiber Cement Trim Board	6.88	1.71
07 46 46 00-0019			3/4" Thick Fiber Cement Trim Boards (07 46 46 00-0013)		
	07 46 46 00-0020	LF	4" Wide, 3/4" Thick, Fiber Cement Trim Board	3.63	1.22
	07 46 46 00-0021	LF	6" Wide, 3/4" Thick, Fiber Cement Trim Board	4.63	1.34
	07 46 46 00-0022	LF	8" Wide, 3/4" Thick, Fiber Cement Trim Board	5.67	1.46
	07 46 46 00-0023	LF	12" Wide, 3/4" Thick, Fiber Cement Trim Board	5.95	1.71
07 46 46 00-0024			1" Thick Fiber Cement Trim Boards (07 46 46 00-0013)		
	07 46 46 00-0025	LF	4" Wide, 1" Thick, Fiber Cement Trim Board	3.84	1.22
	07 46 46 00-0026	LF	6" Wide, 1" Thick, Fiber Cement Trim Board	5.01	1.34
	07 46 46 00-0027	LF	8" Wide, 1" Thick, Fiber Cement Trim Board	6.22	1.46
	07 46 46 00-0028	LF	12" Wide, 1" Thick, Fiber Cement Trim Board	8.27	1.71
07 46 46 00-0029			Fiber Cement Fascia Board (07 46 46)		
	07 46 46 00-0030	LF	5/4" x 3-1/2" Fiber Cement Fascia Board.....	6.78	2.42
	07 46 46 00-0031	LF	5/4" x 5-1/2" Fiber Cement Fascia Board.....	8.45	2.69
	07 46 46 00-0032	LF	5/4" x 7-1/4" Fiber Cement Fascia Board.....	9.42	2.69
	07 46 46 00-0033	LF	5/4" x 11-1/4" Fiber Cement Fascia Board.....	12.48	3.16
07 46 46 00-0034			Fiber Cement Soffit Boards (07 46 46)		
	07 46 46 00-0035	SF	1/4" Thick, Non Vented Fiber Cement Soffit	7.36	1.75
	07 46 46 00-0036	SF	1/4" Thick, Vented Fiber Cement Soffit.....	7.86	1.75
07 46 63			Fabricated Panel Assemblies with Siding (07 46)		
07 46 63 00-0001			Metal Liner Panels (07 46 63)		
07 46 63 00-0002			Galvanized Metal Liner Panels (07 46 63 00-0001)		
	07 46 63 00-0003	SF	24 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel	11.04	2.19
	07 46 63 00-0004	SF	22 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel	12.10	2.19
	07 46 63 00-0005	SF	20 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel	13.96	2.19
	07 46 63 00-0006	SF	18 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel	14.16	2.19
07 50			Membrane Roofing (07)		
	See CSI section 07 22 16 00-0000 for insulation, 07 60 00 00-0000 for additional flashing, sheet metal and trim, 07 70 00 00-0000 for additional roof accessories.				
07 51			Built-Up Bituminous Roofing (07 50)		
07 51 13			Built-Up Asphalt Roofing (07 51)		
07 51 13 00-0001			Built-Up Asphalt Roofing Components (07 51 13)		
07 51 13 00-0002			Built-Up Asphalt Membrane Roofing (07 51 13 00-0001)		
	Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0067 for built-up roofing demolition.				
07 51 13 00-0003			Cold Adhesive Applied, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)		
	Note: Includes applying cold adhesive and embedding the membrane.				
07 51 13 00-0004			Cold Adhesive Applied, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0003)		
	07 51 13 00-0005	SQ	Type IV, Asphalt Coated Fiberglass Ply Sheet, Cold Adhesive Applied	116.33	
			For Up To 10, Add	30.50	
			For >10 To 20, Add	17.06	
			For >20 To 40, Add	9.43	
			For >75 To 100, Deduct	-4.72	
			For >100 To 200, Deduct	-10.34	
			For >200, Deduct	-15.05	
	07 51 13 00-0006	SQ	Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Cold Adhesive Applied	325.28	
			For Up To 10, Add	72.29	
			For >10 To 20, Add	37.95	
			For >20 To 40, Add	19.88	
			For >75 To 100, Deduct	-9.94	
			For >100 To 200, Deduct	-20.78	
			For >200, Deduct	-30.72	
07 51 13 00-0007			Cold Adhesive Applied, Built-Up Asphalt Roofing Flashing (07 51 13 00-0003)		
	07 51 13 00-0008	SF	Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Cold Adhesive Applied	7.71	



Thermal And Moisture Protection		07
Membrane Roofing		07 50
Built-Up Bituminous Roofing		07 51

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0009 Hot-Mopped, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002) Note: Includes mopping hot asphalt and embedding the membrane.		
07 51 13 00-0010 Hot-Mopped, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0009)		
07 51 13 00-0011 SQ Type IV, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped	85.20	
For Up To 10, Add	24.41	
For >10 To 20, Add	14.05	
For >20 To 40, Add	7.95	
For >75 To 100, Deduct	-3.97	
For >100 To 200, Deduct	-8.87	
For >200, Deduct	-12.84	
07 51 13 00-0012 SQ Type VI, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped	91.16	
For Up To 10, Add	25.60	
For >10 To 20, Add	14.64	
For >20 To 40, Add	8.24	
For >75 To 100, Deduct	-4.12	
For >100 To 200, Deduct	-9.16	
For >200, Deduct	-13.29	
07 51 13 00-0013 SQ Fine Mineral Surfaced, Asphalt Coated Fiberglass Base Sheet, Hot-Mopped.....	97.93	
For Up To 10, Add	26.96	
For >10 To 20, Add	15.32	
For >20 To 40, Add	8.58	
For >75 To 100, Deduct	-4.29	
For >100 To 200, Deduct	-9.50	
For >200, Deduct	-13.79	
07 51 13 00-0014 SQ Asphalt Coated Fiberglass Venting Base Sheet, Hot-Mopped	173.00	
For Up To 10, Add	41.97	
For >10 To 20, Add	22.83	
For >20 To 40, Add	12.34	
For >75 To 100, Deduct	-6.17	
For >100 To 200, Deduct	-13.26	
For >200, Deduct	-19.42	
07 51 13 00-0015 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Hot-Mopped	294.15	
For Up To 10, Add	66.20	
For >10 To 20, Add	34.94	
For >20 To 40, Add	18.39	
For >75 To 100, Deduct	-9.20	
For >100 To 200, Deduct	-19.31	
For >200, Deduct	-28.51	
07 51 13 00-0016 SQ Granule Surfaced, Asphalt Coated Fiberglass Cap Sheet, Hot-Mopped	222.32	
For Up To 10, Add	52.53	
For >10 To 20, Add	28.28	
For >20 To 40, Add	15.15	
For >75 To 100, Deduct	-7.58	
For >100 To 200, Deduct	-16.16	
For >200, Deduct	-23.74	
07 51 13 00-0017 Hot-Mopped, Built-Up Asphalt Roofing Flashing (07 51 13 00-0009)		
07 51 13 00-0018 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Hot-Mopped	4.87	
07 51 13 00-0019 Mechanically Fastened, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002) Note: Includes fasteners.		
07 51 13 00-0020 Mechanically Fastened, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0019)		
07 51 13 00-0021 SQ Type VI, Asphalt Coated Fiberglass Ply Sheet, Mechanically Fastened.....	90.66	
For Up To 10, Add	21.74	
For >10 To 20, Add	11.78	
For >20 To 40, Add	6.34	
For >75 To 100, Deduct	-3.17	
For >100 To 200, Deduct	-6.79	
For >200, Deduct	-9.96	
07 51 13 00-0022 SQ Asphalt Coated Fiberglass Venting Base Sheet, Mechanically Fastened.....	172.50	
For Up To 10, Add	38.11	
For >10 To 20, Add	19.96	
For >20 To 40, Add	10.43	
For >75 To 100, Deduct	-5.22	
For >100 To 200, Deduct	-10.88	
For >200, Deduct	-16.10	
07 51 13 00-0023 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Mechanically Fastened	293.65	
For Up To 10, Add	62.34	
For >10 To 20, Add	32.07	
For >20 To 40, Add	16.49	
For >75 To 100, Deduct	-8.24	
For >100 To 200, Deduct	-16.94	
For >200, Deduct	-25.18	
07 51 13 00-0024 Mechanically Fastened, Built-Up Asphalt Roofing Flashing (07 51 13 00-0019)		
07 51 13 00-0025 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Mechanically Fastened	5.91	
07 51 13 00-0026 Asphalt Saturated Organic Felt (07 51 13 00-0001)		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0027			Cold Adhesive Applied, Asphalt Saturated Organic Felt (07 51 13 00-0026) Note: Includes applying cold adhesive and embedding the felt.		
07 51 13 00-0028	SQ		15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied	112.60	
			For Up To 10, Add	29.75	
			For >10 To 20, Add	16.68	
			For >20 To 40, Add	9.25	
			For >75 To 100, Deduct	-4.62	
			For >100 To 200, Deduct	-10.15	
			For >200, Deduct	-14.77	
07 51 13 00-0029	SQ		30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied	127.96	
			For Up To 10, Add	32.82	
			For >10 To 20, Add	18.22	
			For >20 To 40, Add	10.01	
			For >75 To 100, Deduct	-5.01	
			For >100 To 200, Deduct	-10.92	
			For >200, Deduct	-15.93	
07 51 13 00-0030			Hot-Mopped, Asphalt Saturated Organic Felt (07 51 13 00-0026) Note: Includes mopping hot asphalt and embedding the felt.		
07 51 13 00-0031	SQ		15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped	81.47	
			For Up To 10, Add	23.66	
			For >10 To 20, Add	13.67	
			For >20 To 40, Add	7.76	
			For >75 To 100, Deduct	-3.88	
			For >100 To 200, Deduct	-8.68	
			For >200, Deduct	-12.56	
07 51 13 00-0032	SQ		30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped	96.84	
			For Up To 10, Add	26.74	
			For >10 To 20, Add	15.21	
			For >20 To 40, Add	8.53	
			For >75 To 100, Deduct	-4.26	
			For >100 To 200, Deduct	-9.45	
			For >200, Deduct	-13.71	
07 51 13 00-0033			Mechanically Fastened, Asphalt Saturated Organic Felt (07 51 13 00-0026) Note: Includes fasteners.		
07 51 13 00-0034	SQ		15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened.....	40.93	
			For Up To 10, Add	11.80	
			For >10 To 20, Add	6.80	
			For >20 To 40, Add	3.85	
			For >75 To 100, Deduct	-1.93	
			For >100 To 200, Deduct	-4.30	
			For >200, Deduct	-6.23	
07 51 13 00-0035	SQ		30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened.....	56.29	
			For Up To 10, Add	14.87	
			For >10 To 20, Add	8.34	
			For >20 To 40, Add	4.62	
			For >75 To 100, Deduct	-2.31	
			For >100 To 200, Deduct	-5.07	
			For >200, Deduct	-7.38	
07 51 13 00-0036			Surfacing (07 51 13 00-0001)		
07 51 13 00-0037	SQ		400 LB/SQ Gravel Roofing Ballast, Set In Hot Asphalt Flood Coat	179.16	
			For Up To 10, Add	53.91	
			For >10 To 20, Add	31.48	
			For >20 To 40, Add	18.00	
			For >75 To 100, Deduct	-9.00	
			For >100 To 200, Deduct	-20.26	
			For >200, Deduct	-29.26	
07 51 13 00-0038	SQ		400 LB/SQ Gravel Roofing Ballast, Set In Cold Adhesive Flood Coat.....	269.58	
			For Up To 10, Add	72.00	
			For >10 To 20, Add	40.52	
			For >20 To 40, Add	22.52	
			For >75 To 100, Deduct	-11.26	
			For >100 To 200, Deduct	-24.78	
			For >200, Deduct	-36.04	
07 51 13 00-0039	CY		Gravel Roofing Ballast, Spread To Desired Thickness	182.59	
			Note: Excludes hot asphalt or cold adhesive.		
07 51 13 00-0040	SQ		Protective Polypropylene Fabric Mat, Loose Laid.....	50.96	
			Note: Installed as a separator mat (under membrane), a crushed stone mat (above membrane) or as a stone separator mat in ballasted systems.		
			For Up To 10, Add	12.58	
			For >10 To 20, Add	6.89	
			For >20 To 40, Add	3.74	
			For >75 To 100, Deduct	-1.87	
			For >100 To 200, Deduct	-4.04	
			For >200, Deduct	-5.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0041 SQ Clay-Stabilized, Water-Based Asphalt Emulsion With Reinforcing Fibers, Weather-Proofing Surface Coating, Price Per Coat 132.87 Note: Protective coating for use over built-up, SBS and APP modified bitumen, metal, concrete and wood roofs.		
<i>For Up To 10, Add</i>	30.91	
<i>For >10 To 20, Add</i>	16.54	
<i>For >20 To 40, Add</i>	8.81	
<i>For >75 To 100, Deduct</i>	-4.41	
<i>For >100 To 200, Deduct</i>	-9.36	
<i>For >200, Deduct</i>	-13.76	
07 51 13 00-0042 SQ Fibrated Aluminum, Asphalt-Based, Reflective Weather-Proofing Surface Coating, Price Per Coat..... 117.91 Note: Protective and reflective coating for use over built-up, SBS and APP modified bitumen and metal roofs.		
<i>For Up To 10, Add</i>	27.92	
<i>For >10 To 20, Add</i>	15.05	
<i>For >20 To 40, Add</i>	8.07	
<i>For >75 To 100, Deduct</i>	-4.03	
<i>For >100 To 200, Deduct</i>	-8.61	
<i>For >200, Deduct</i>	-12.64	
07 51 13 00-0043 SQ Aluminum Flakes And Reinforcing Fibers Suspended In Emulsified Asphalt, Reflective Surface Coating, Price Per Coat..... 158.72 Note: Reflective coating for use over smooth-surfaced built-up roofs.		
<i>For Up To 10, Add</i>	36.08	
<i>For >10 To 20, Add</i>	19.13	
<i>For >20 To 40, Add</i>	10.11	
<i>For >75 To 100, Deduct</i>	-5.05	
<i>For >100 To 200, Deduct</i>	-10.65	
<i>For >200, Deduct</i>	-15.70	
07 51 13 00-0044 SQ 100% Acrylic Elastomeric, Reflective Surface Coating, Price Per Coat..... 160.05 Note: Reflective coating for use over built-up, SBS and APP modified bitumen roofs. For use on smooth or granule surfaced roofing systems.		
<i>For Up To 10, Add</i>	36.35	
<i>For >10 To 20, Add</i>	19.26	
<i>For >20 To 40, Add</i>	10.17	
<i>For >75 To 100, Deduct</i>	-5.09	
<i>For >100 To 200, Deduct</i>	-10.72	
<i>For >200, Deduct</i>	-15.80	
<i>For Installation Over Granule Surfaced Asphalt Roof Systems, Add</i>	47.83	
07 51 13 00-0045 SQ 100% Acrylic Elastomeric, Bleed Blocking Base Coating, Price Per Coat..... 165.55 Note: Bleed blocking coating for use over built-up, Styrene-Butadiene-Styrene (SBS) and Atactic-Polypropylene (APP) modified bitumen roofs. For use on smooth or granule surfaced roofing systems.		
<i>For Up To 10, Add</i>	37.45	
<i>For >10 To 20, Add</i>	19.81	
<i>For >20 To 40, Add</i>	10.45	
<i>For >75 To 100, Deduct</i>	-5.22	
<i>For >100 To 200, Deduct</i>	-10.99	
<i>For >200, Deduct</i>	-16.21	
<i>For Installation Over Granule Surfaced Asphalt Roof Systems, Add</i>	49.64	
07 51 13 00-0046 SF Ceramic Coated Roofing Granules, Hand Broadcast 2.59 Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane repairs, etc.		
07 51 13 00-0047 SF Energy Star, Ceramic Coated UltraWhite Roofing Granules, Hand Broadcast..... 4.39 Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane repairs, etc.		
07 51 13 00-0048 SQ Vapor Permeable Synthetic Underlayment (GAF Deck-Armor™)..... 39.49		
07 51 13 00-0049 Walkway Pads <small>(07 51 13 00-0001)</small> Note: Set in hot asphalt or cold adhesive.		
07 51 13 00-0050 LF 5/16" Thick, 32" Wide, Skid Resistant, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Walkway Pad..... 33.30		
07 51 13 00-0051 LF 1/2" Thick, 32" Wide, Skid Resistant, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Walkway Pad..... 39.74		
07 51 13 00-0052 Cant And Tapered Edge Strips <small>(07 51 13 00-0001)</small>		
07 51 13 00-0053 LF 2" x 2" Perlite Cant Strip 4.37		
07 51 13 00-0054 LF 3" x 3" Perlite Cant Strip 4.52		
07 51 13 00-0055 LF 4" x 4" Perlite Cant Strip 5.22		
07 51 13 00-0056 LF 3" x 3" Pressure Treated Wood Cant Strip, Cut Diagonally 4.35		
07 51 13 00-0057 LF 4" x 4" Pressure Treated Wood Cant Strip, Cut Diagonally 4.52		
07 51 13 00-0058 LF 1/2" x 6" Perlite Tapered Edge Strip 4.89		
07 51 13 00-0059 LF 1/2" x 12" Perlite Tapered Edge Strip 5.70		
07 51 13 00-0060 LF 1" x 12" Perlite Tapered Edge Strip 5.91		
07 51 13 00-0061 LF 1" x 24" Perlite Tapered Edge Strip 6.75		
07 51 13 00-0062 LF 1-1/2" x 12" Perlite Tapered Edge Strip 6.67		
07 51 13 00-0063 LF 1-1/2" x 18" Perlite Tapered Edge Strip 8.19		
07 51 13 00-0064 LF 1-1/2" x 24" Perlite Tapered Edge Strip 9.30		
07 51 13 00-0065 Asphalt Primer <small>(07 51 13 00-0001)</small>		
07 51 13 00-0066 SQ Asphalt Primer For Roofing Systems..... 36.64 Note: Foundation coating for hot-mopped and cold applied asphalt coatings, roof cements, and asphalt based roof adhesives. For use on weathered roofing, asphalt, concrete, gypsum, masonry, block, brick and metal surfaces.		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 51 13 00-0067	Demolish Built-Up Roofing (07 51 13 00-0001)	
	Note: For removing any asphalt, coal tar or modified bitumen roofing system, including surfacing material down to the insulation or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.). See CSI section 01 74 19 00-0000 for chutes, dumpsters and hauling.	
07 51 13 00-0068	SQ Demolish Gravel/Slag Surfaced, Built Up Roofing System	379.71
	For Up To 10, Add	94.18
	For >10 To 25, Add	56.51
07 51 13 00-0069	SQ Demolish Cap Sheet Surfaced, Built Up Roofing System	292.92
	Note: Includes protective surfacing.	
	For Up To 10, Add	72.66
	For >10 To 25, Add	43.59
07 51 13 00-0070	Roofing System Warranty (07 51 13 00-0001)	
	Note: The warranty tasks below are only to be used in conjunction with the built-up bituminous and modified bituminous membrane roofing sections. The appropriate task is to be applied to the completed roofing membrane systems, not individual components. All warranties are no dollar limit to include material, equipment and labor.	
07 51 13 00-0071	EA Up To 50 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	611.24
07 51 13 00-0072	SQ >50 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	8.73
07 51 13 00-0073	EA Up To 50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	698.56
07 51 13 00-0074	SQ >50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	13.97
07 51 13 00-0075	EA Up To 50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	960.52
07 51 13 00-0076	SQ >50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	19.21
07 51 13 00-0077	Built-Up Roofing Components (Tremco) (07 51 13)	
	Note: All tasks presented as a single layer. Adhesives are priced separately.	
07 51 13 00-0078	Cold Applied BUR Base Plies And Ply Sheets (07 51 13 00-0077)	
07 51 13 00-0079	SQ BURmastic Composite Ply, Cold Applied BUR Component	139.86
	Note: Asphalt coated polyester/glass/polyester trilaminate reinforced ply sheet. Type II. 55 mils. Also used as a hot or cold applied base sheet.	
07 51 13 00-0080	SQ BURmastic Premium Composite Ply, Cold Applied BUR Component	169.72
	Note: Asphalt coated polyester/glass/polyester trilaminate reinforced high strength ply sheet. Type II. 57 mil. Also used as a hot or cold applied base sheet.	
07 51 13 00-0081	SQ BURmastic Supreme Composite Ply, Cold Applied BUR Component	195.36
	Note: Asphalt coated polyester/glass/polyester trilaminate reinforced high strength ply sheet. Type II. 51 mil. Also used as a hot or cold applied base sheet.	
07 51 13 00-0082	SQ 28 LB BURmastic Glass Ply, Cold Applied BUR Component	44.35
	Note: Asphalt coated fiberglass base or ply sheet. Type II.	
07 51 13 00-0083	SQ 33 LB BURmastic Glass Ply, Cold Applied BUR Component	64.37
	Note: Asphalt coated fiberglass base or ply sheet. Type II.	
07 51 13 00-0084	SQ POWERply Modified HE Base Sheet, Hot Or Cold Applied BUR Component	267.71
	Note: Smooth surfaced, high elongation polyester reinforced modified bitumen base sheet. Type I, Grade S. 94 mil.	
07 51 13 00-0085	SQ POWERply Modified Heavy Duty Base Sheet, Hot Applied BUR Component	247.63
	Note: A smooth surfaced, non woven fiberglass/scrim fiberglass bilaminate reinforced modified bitumen membrane. 120 mil.	
07 51 13 00-0086	Hot Or Cold Applied Modified Bitumen Cap Membrane (07 51 13 00-0077)	
07 51 13 00-0087	SQ POWERply Standard Smooth Cap Membrane, Hot Or Cold Applied BUR Component	151.26
	Note: Fiberglass reinforced modified bitumen membrane. Type I, Grade S. 80 mils. Also used as a hot or cold applied ply.	
07 51 13 00-0088	SQ POWERply Premium Smooth Cap Membrane, Hot Or Cold Applied BUR Component	401.08
	Note: Polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 90 mils. Also used as a hot or cold applied ply.	
07 51 13 00-0089	SQ POWERply Supreme Smooth Cap Membrane, Hot Or Cold Applied BUR Component	663.61
	Note: Polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 98 mils. Also used as a hot or cold applied ply.	
07 51 13 00-0090	SQ POWERply Standard Cap Membrane, Hot Or Cold Applied BUR Component	176.60
	Note: Granule surface, fiberglass reinforced modified bitumen cap sheet membrane. 120 mils. Black or white surface.	
07 51 13 00-0091	SQ POWERply Standard FR Cap Membrane, Hot Or Cold Applied BUR Component	271.21
	Note: Fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane. Type I, Grade G. 120 mils.	
07 51 13 00-0092	SQ POWERply Premium FR Cap Membrane, Hot Or Cold Applied BUR Component	658.26
	Note: Fire rated, granule surfaced, polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 160 mils. Black or white surface.	
07 51 13 00-0093	SQ POWERply Standard FR GT24W Cap Membrane, Hot Or Cold Applied BUR Component	478.89
	Note: Highly reflective, fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane meeting California's Title 24 requirements. Type I, Grade G.	
07 51 13 00-0094	SQ POWERply HE FR Cap Sheet, Hot Applied BUR Component	475.22
	Note: High elongation, fire rated, granule surfaced, polyester reinforced modified bitumen membrane. 160 mils.	
07 51 13 00-0095	Self Adhesive Base Plies And Ply Sheets (07 51 13 00-0077)	
07 51 13 00-0096	SQ POWERply SA Base Sheet, Self Adhesive Roofing	275.86
	Note: A self adhesive, fiberglass reinforced Styrene-Butadiene-Styrene (SBS) modified bitumen base sheet/underlayment. Type 1, Grade S. 80 mils.	
07 51 13 00-0097	SQ POWERply SA FR Membrane, Self Adhesive Roofing	546.10
	Note: A fire rated, granule surfaced, polyester reinforced, self adhesive Styrene-Butadiene-Styrene (SBS) modified bitumen membrane. Type I, Grade G. 130 mils.	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0098 Flashings <small>(07 51 13 00-0077)</small>						
	07 51 13 00-0099	LF		11-1/2" Hypalon Elastomeric Flashing Note: 45 mils.	16.86	
	07 51 13 00-0100	LF		19" Hypalon Elastomeric Flashing Note: 45 mils.	27.33	
	07 51 13 00-0101	LF		25" Hypalon Elastomeric Flashing Note: 45 mils.	36.28	
	07 51 13 00-0102	LF		38" Hypalon Elastomeric Flashing Note: 45 mils.	53.26	
	07 51 13 00-0103	LF		60-1/2" Hypalon Elastomeric Flashing Note: 45 mils.	87.65	
	07 51 13 00-0104	LF		12" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	13.31	
	07 51 13 00-0105	LF		18" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	21.64	
	07 51 13 00-0106	LF		24" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	28.83	
	07 51 13 00-0107	LF		36" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	42.16	
	07 51 13 00-0108	LF		60" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	70.95	
	07 51 13 00-0109	LF		4" BURmesh Fabric Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	3.68	
	07 51 13 00-0110	LF		6" BURmesh Fabric Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	3.85	
	07 51 13 00-0111	LF		12" BURmesh Fabric Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	5.43	
	07 51 13 00-0112	LF		36" BURmesh Fabric Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	14.07	
07 51 13 00-0113 Cold Applied Adhesives <small>(07 51 13 00-0077)</small>						
	07 51 13 00-0114	SQ		BURmastic Inter-Ply Cold Applied Adhesive	170.67	
	07 51 13 00-0115	SQ		BURmastic Flood Coat Cold Applied Adhesive	281.49	
	07 51 13 00-0116	SQ		BURmastic SF Inter-Ply Cold Applied Adhesive	217.58	
	07 51 13 00-0117	SQ		BURmastic LV Inter-Ply Cold Applied Adhesive	170.67	
	07 51 13 00-0118	SQ		POWERply Standard Inter-Ply Cold Applied Adhesive	86.13	
	07 51 13 00-0119	SQ		POWERply Standard Flood Coat Cold Applied Adhesive.....	192.00	
	07 51 13 00-0120	SQ		POWERply White On White Cold Applied Adhesive.....	189.45	
	07 51 13 00-0121	SQ		Rock-It Cold Applied Adhesive For Gravel Applications	530.39	
	07 51 13 00-0122	SQ		FAS-n-FREE Cold Applied Adhesive (Beads 12" OC)..... Note: For insulation only.	293.34	
	07 51 13 00-0123	SQ		ECOLastic Cold Applied Adhesive.....	329.08	
07 51 13 00-0124 Hot Applied Adhesives <small>(07 51 13 00-0077)</small>						
	07 51 13 00-0125	SQ		Premium III Asphalt Inter-Ply Hot Applied Adhesive	60.93	
	07 51 13 00-0126	SQ		Premium III Asphalt Flood Coat Hot Applied Adhesive.....	113.35	
07 51 13 00-0127 Flashings Adhesives <small>(07 51 13 00-0077)</small>						
	07 51 13 00-0128	LF		Sheeting Bond Flashing Adhesive..... Note: Used to attach Hypalon sheeting to asphalt or coal-tar roofing membranes.	20.39	
	07 51 13 00-0129	LF		Polyroof SF Flashing Mastic Note: A solvent free, one part elastomeric roof mastic. Used to seal edges or as a repair mastic for split or cracked seals.	27.10	
	07 51 13 00-0130	LF		ELS Flashing Mastic..... Note: Used for repairing flashings and asphalt built-up roof defects.	16.35	
	07 51 13 00-0131	LF		TremSEAL D General Purpose Sealant	6.21	
	07 51 13 00-0132	LF		TremSEAL HP High Performance Sealant	6.38	
	07 51 13 00-0133	LF		TremSEAL S Silicone Sealant	6.24	
07 51 13 00-0134 Surfacing <small>(07 51 13 00-0077)</small>						
	07 51 13 00-0135	SQ		TremLastic SP Non Fibered Elastomeric Emulsion Cold Applied Coating.....	254.76	
	07 51 13 00-0136	SQ		ICE Coating, Water Based, Heavy Bodied Elastomeric Roof Coating	569.35	
	07 51 13 00-0137	SQ		Polar Coat.....	145.45	
	07 51 13 00-0138	SQ		Alumanation 301, Asphalt Based, Fibrated Aluminum Roof Coating	178.61	
	07 51 13 00-0139	SQ		Wall-Tite, Elastomeric Coating For Exterior Above-Grade Walls	521.02	
	07 51 13 00-0140	SQ		Solarguard Hy-Build, Elastomeric Coating For Exterior Above-Grade Walls	235.09	
	07 51 13 00-0141	SQ		100% Stitchbonded, Polyester Fabric (Tremco PERMAFAB).....	67.23	
07 51 13 00-0142 Walkway Protection Pads <small>(07 51 13 00-0077)</small>						
	07 51 13 00-0143	LF		36" Wide, Fiberglass Reinforced Asphaltic Walkway Protection Pad (Tremco Trem-Tred®)	32.69	
07 51 13 00-0144 Primer <small>(07 51 13 00-0077)</small>						

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0145 SQ TREMprime WB Primer Note: Water based polymer modified asphalt primer.	36.87	
07 51 13 00-0146 SQ Solarguard Masonry Primer, Acrylic Latex Primer For Wall Tite F Coating.....	83.47	
07 51 13 00-0147 Liquid Applied Roofing (07 51 13 00-0077)		
07 51 13 00-0148 SQ Trem-LAR LRM H Waterproofing (Horizontal) Note: One part liquid applied elastomeric roofing membrane. 60 mils.	432.93	
07 51 13 00-0149 SQ Trem-LAR LRM V Waterproofing (Vertical)..... Note: One part liquid applied elastomeric roofing membrane. 60 mils.	440.70	
07 51 13 00-0150 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Smooth BUR/MB, Concrete Or Single Ply Surfaces..... Note: Two part liquid applied polyurethane roof coating. 48 mils.	567.12	
07 51 13 00-0151 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Granule MB Surfaces Note: Two part liquid applied polyurethane roof coating. 64 mils.	738.39	
07 51 13 00-0152 SQ AlphaGuard BIO Top Coat, High Performance, Two-Part, Polyurethane Roof Coating..... Note: Two part liquid applied polyurethane roof coating. 32 mils.	429.80	
07 51 13 00-0153 SQ AlphaGuard Glass Mat..... Note: Reinforcement mat for AlphaGuard systems.	82.55	
07 51 13 00-0154 SQ AlphaGuard C-Prime Primer..... Note: 100% solids epoxy primer for concrete surfaces.	83.29	
07 51 13 00-0155 SQ AlphaGuard M-Prime Primer..... Note: Water based primer for metal and plastic surfaces.	89.58	
07 51 13 00-0156 SQ Geogard Primer Note: Reactivation primer for cured AlphaGuard MT roof systems and coatings.	65.84	
07 51 13 00-0157 SQ AlphaGuard Primer WB Note: Water based polymer modified primer which conditions a variety of roofing substrates prior to the application of AlphaGuard systems.	59.14	
07 51 13 00-0158 Atactic-Polypropylene (APP) Products (07 51 13 00-0077)		
07 51 13 00-0159 SQ POWERply Atactic-Polypropylene (APP) Base Sheet.....	223.29	
07 51 13 00-0160 SQ POWERply Atactic-Polypropylene (APP) FR.....	422.79	
07 51 13 00-0161 SQ POWERply Atactic-Polypropylene (APP) Smooth.....	338.82	
07 51 13 00-0162 Tri-Polymer Alloy (TPA) White Membrane (07 51 13 00-0077)		
07 51 13 00-0163 SQ 45 Mil Tri-Polymer Alloy (TPA) White Membrane.....	592.68	
07 51 13 00-0164 SQ 60 Mil Tri-Polymer Alloy (TPA) White Membrane.....	814.44	
07 51 13 00-0165 SQ 80 Mil Tri-Polymer Alloy (TPA) White Membrane.....	926.06	
07 51 13 00-0166 Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane (07 51 13 00-0077)		
07 51 13 00-0167 SQ 45 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane.....	682.34	
07 51 13 00-0168 SQ 60 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane.....	838.00	
07 51 13 00-0169 SQ 80 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane.....	1,026.11	
07 51 13 00-0170 Tri-Polymer Alloy (TPA) Membrane Accessories (07 51 13 00-0077)		
07 51 13 00-0171 EA >1" To 4" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco).....	122.00	
07 51 13 00-0172 EA >4" To 8" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco).....	138.57	
07 51 13 00-0173 LF 36" Wide, Thermoplastic Tri-Polymer Alloy (TPA) Walkway Protection Pad (Tremco).....	19.52	
07 51 13 00-0174 SQ Factory Coated Steel Fasteners And Steel Or Plastic Membrane Plates (Tremco).....	66.30	
07 51 13 00-0175 Thermoplastic Polyolefin (TPO) Polyester White Membrane (07 51 13 00-0077)		
07 51 13 00-0176 SQ 45 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane.....	316.89	
07 51 13 00-0177 SQ 60 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane.....	321.36	
07 51 13 00-0178 SQ 80 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane.....	574.64	
07 51 13 00-0179 Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane (07 51 13 00-0077)		
07 51 13 00-0180 SQ 45 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane.....	369.22	
07 51 13 00-0181 SQ 60 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane.....	416.70	
07 51 13 00-0182 SQ 80 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane.....	607.81	
07 51 13 00-0183 Chlorosulfonated Polyethylene (CSPE) White Membrane (Tremply HP 4510) (07 51 13 00-0077)		
07 51 13 00-0184 SQ 45 Mil Chlorosulfonated Polyethylene (CSPE) White Membrane (Tremply HP 4510).....	997.90	
07 51 13 00-0185 Single Ply Adhesives (07 51 13 00-0077)		
07 51 13 00-0186 SQ Low VOC, TPA Bonding Adhesive (Tremco).....	160.79	
07 51 13 00-0187 SQ Water Based, TPA Bonding Adhesive (Tremco).....	181.75	
07 51 13 00-0188 SQ Water Based, Fleece Backed Single Ply Bonding Adhesive (Tremco).....	157.75	
07 51 13 00-0189 SQ Low VOC, TPO Bonding Adhesive (Tremco).....	104.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0190 Warranty (Tremco) <small>(07 51 13 00-0077)</small>		
07 51 13 00-0191 EA Up To 10,000 SF 15 Year Roofing System Warranty	1,500.00	
07 51 13 00-0192 SF >10,000 SF 15 Year Roofing System Warranty	0.15	
07 51 13 00-0193 EA Up To 10,000 SF 20 Year Roofing System Warranty	2,000.00	
07 51 13 00-0194 SF >10,000 SF 20 Year Roofing System Warranty	0.20	
07 51 13 00-0195 Built-Up Roofing Components (Garland) <small>(07 51 13)</small>		
Note: All tasks presented as a single layer. Adhesives are priced separately.		
07 51 13 00-0196 Modified Cap Membranes <small>(07 51 13 00-0195)</small>		
07 51 13 00-0197 Modified Cap Membranes, Hot/Cold Applied <small>(07 51 13 00-0196)</small>		
Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.		
07 51 13 00-0198 SQ Stressply® FR Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Fiberglass Reinforced Membrane, Minimum 145 Mil	697.52	
07 51 13 00-0199 SQ Stressply® Plus Poly/Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Membrane With Recycled Rubber, 105 Mil	499.00	
07 51 13 00-0200 SQ Stressply® Plus FR Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Fiberglass Reinforced Membrane With Recycled Rubber, Minimum 155 Mil	617.83	
07 51 13 00-0201 SQ Stressply® E Eco-Responsible, Smooth Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Membrane With High Recycled Content And Renewable Materials	642.02	
07 51 13 00-0202 SQ Stressply® E FR Mineral Eco-Responsible, Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Membrane With High Recycled Content And Renewable Materials, Minimum 160 Mil	893.90	
07 51 13 00-0203 SQ Stressply® EUV Fiberglass Reinforced, Minimum Poly/Fiberglass Reinforced White T-24 Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Modified Membrane With Recycled Rubber, 160 Mil	1,004.90	
07 51 13 00-0204 SQ Versiply® III 80 Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, 80 Mil	421.90	
Note: Low strength cap sheet for hot or cold modified systems used with gravel.		
07 51 13 00-0205 SQ Versiply® III Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, Minimum 145 Mil	532.45	
07 51 13 00-0206 SQ BiFlex® Cap Fiberglass Reinforced, Mineral Surfaced Styrene-Butadiene-Styrene (SBS) Modified Membrane, 140 Mil	325.59	
07 51 13 00-0207 Modified Cap Membranes, Self-Adhering <small>(07 51 13 00-0196)</small>		
Note: As manufactured by Garland. Pricing represents single ply per square. Includes 25 year leak-free warranty.		
07 51 13 00-0208 SQ Stressply® SA FR Mineral Styrene-Butadiene-Styrene (SBS) Modified Self-Adhering Fiberglass Reinforced Membrane, Minimum 140 Mil	631.35	
Note: Self adhering system. One HPR SA FR base with one ply Stress Ply SA FR cap sheet.		
07 51 13 00-0209 Modified Cap Membranes, Torch-Applied <small>(07 51 13 00-0196)</small>		
Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.		
07 51 13 00-0210 SQ Stressply® IV Dual Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, 180 Mil	777.22	
Note: Smooth surfaced Styrene-Butadiene-Styrene (SBS) torch modified top ply of torch system with gravel.		
07 51 13 00-0211 SQ Stressply® IV Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, Minimum 195 Mil	845.53	
07 51 13 00-0212 SQ Stressply® IV UV Mineral Fiberglass Reinforced, Starburst Surface Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, Title 24 Compliant, 195 Mil	891.06	
07 51 13 00-0213 Modified Cap Membranes, Coal Tar Pitch Systems <small>(07 51 13 00-0196)</small>		
Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.		
07 51 13 00-0214 SQ Millennium® Poly/Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Membrane, Minimum 120 Mil	716.29	
07 51 13 00-0215 SQ Millennium® FR Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Fiberglass Reinforced Membrane, Minimum 160 Mil	1,132.98	
07 51 13 00-0216 SQ Millennium® Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Membrane, Minimum 160 Mil	922.38	
07 51 13 00-0217 Base Ply <small>(07 51 13 00-0195)</small>		
Note: Used with modified cap membranes, underlayment for metal systems, and reinforcement for restoration systems.		
07 51 13 00-0218 SQ Flexbase® E120 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet Used As Base Ply With Biflex Cap, 120 Mil	637.75	
07 51 13 00-0219 SQ Flexbase® 80 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet Used As Base Ply With Biflex Cap, 80 Mil	400.81	
07 51 13 00-0220 SQ HPR® Glasbase Heavy Duty Double Coated ASTM D 4601, Type II Fiberglass, Type II, 55 Mil	91.75	
Note: Glasbase used in cold system, nailed to deck, or inner ply 2 plies with cap.		
07 51 13 00-0221 SQ HPR® Glasfelt Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type IV, 20 Mil	60.73	
Note: Inner ply felts for hot applied built up and modified BUR systems.		
07 51 13 00-0222 SQ HPR® Premium Glasbase High Strength, Double Coated Premium Base Sheet, Far Exceeds ASTM D 4601 Type II, 55 Mil	73.95	
07 51 13 00-0223 SQ HPR® Premium Glasfelt Premium Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type VI, 25 Mil	80.36	
07 51 13 00-0224 SQ HPR® Tribase Premium Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet, 60 Mil	125.00	
Note: Inner plies for cold applied modified, Styrene-Butadiene-Styrene (SBS) modified, or 2 plies under cap sheet.		
07 51 13 00-0225 SQ Millennium® Base Poly/Fiberglass Reinforced Coal Tar Base Sheet For Cold Millennium Systems, 80 Mil	406.07	
07 51 13 00-0226 SQ HPR® SA FR Base Sheet Styrene-Butadiene-Styrene (SBS) Modified Self-Adhering Underlayment Used In SP SA Fiberglass Reinforced Systems, Minimum 80 Mil	350.30	
Note: Self adhering base ply for self adhering 2 ply system.		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0227 SQ StressBase® 120 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 120 Mil.....	355.72	
07 51 13 00-0228 SQ StressBase® 80 Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 80 Mil.....	295.25	
07 51 13 00-0229 LF Garmesh® 6" Styrene-Butadiene-Styrene (SBS) Coated Woven Fiberglass Reinforcing Fabric.....	5.27	
07 51 13 00-0230 LF Grip Polyester® Firm Polyester Reinforcement Used For Cold Application Over Smooth BUR Or Modified Roof Systems.....	14.63	
07 51 13 00-0231 SQ Grip Polyester® Soft Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems.....	70.75	
07 51 13 00-0232 LF Grip Polyester® Soft 12" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems.....	6.87	
07 51 13 00-0233 LF Grip Polyester® Soft 4" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems.....	4.98	
07 51 13 00-0234 LF Grip Polyester® Soft 6" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems.....	5.81	
07 51 13 00-0235 SQ HPR® Polyscrim Plus Polyester Reinforcement For Hot Bitumen Applications.....	154.65	
07 51 13 00-0236 Coatings And Mastics For Roof Installation, Restoration And Repairs (07 51 13 00-0195)		
07 51 13 00-0237 SQ Water Based Roof Primer, GarlaPrime VOC Primer.....	44.72	
07 51 13 00-0238 SQ Black-Knight® Primer.....	41.38	
07 51 13 00-0239 SQ Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Interply.....	170.30	
07 51 13 00-0240 SQ Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Flood Coat (4-5 GAL/SQ).....	180.30	
07 51 13 00-0241 SQ Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Restoration (6-8 GAL/SQ).....	287.15	
07 51 13 00-0242 SQ Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Interply.....	462.22	
07 51 13 00-0243 SQ Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Flood Coat.....	475.55	
07 51 13 00-0244 SQ Energizer® K Plus FR Cold Applied Styrene-Butadiene-Styrene (SBS) Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, One Coat (3 GAL/SQ).....	222.23	
07 51 13 00-0245 SQ Energizer® K Plus FR Cold Applied Styrene-Butadiene-Styrene (SBS) Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, Restoration.....	367.42	
07 51 13 00-0246 SQ Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, One Coat (3 GAL/SQ).....	567.07	
07 51 13 00-0247 SQ Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, Restoration.....	942.34	
07 51 13 00-0248 SQ Garlastic® KM Plus Premium Hot Applied, Styrene-Ethylene-Butadiene-Styrene (SEBS) Modified Adhesive/Waterproofer, Interply.....	394.56	
07 51 13 00-0249 SQ Garlastic® KM Plus Premium Hot Applied, Styrene-Ethylene-Butadiene-Styrene (SEBS) Modified Adhesive/Waterproofer, Flood Coat.....	407.89	
07 51 13 00-0250 SQ Green-Lock® Flashing Adhesive 100% Solids Polyether, Zero VOC, Flashing Adhesive To Be Used With Styrene-Butadiene-Styrene (SBS) Sheets Only.....	865.61	
07 51 13 00-0251 SQ Green-Lock® Membrane Adhesive 100% Solids Polyether, Zero VOC, Membrane Adhesive To Be Used With Styrene-Butadiene-Styrene (SBS) Sheets Only.....	374.66	
07 51 13 00-0252 SQ HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Interply.....	183.05	
07 51 13 00-0253 SQ HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Flood Coat.....	196.38	
07 51 13 00-0254 SQ Insul-Lock® E HR Bio-Based High Rise Urethane Insulation Adhesive For New Construction Or Gravel.....	170.57	
07 51 13 00-0255 SQ Insul-Lock® HR High Rise Urethane Insulation Adhesive For New Construction Or Gravel Recovers.....	159.26	
07 51 13 00-0256 SQ Insul-Lock® HR Universal Primer All-Purpose Water Based Primer Designed For Use With The Insul-Lock Products.....	20.10	
Note: Adheres all insulation layers for cold systems.		
07 51 13 00-0257 SQ Pyramic® Plus LO White, Water-Based Acrylic, Low VOC, Reflective Roof Coating, Energy Star, Top Coat Required.....	193.24	
07 51 13 00-0258 SQ Pyramic® Plus LO Base Coat, Water-Based, Acrylic, Low VOC, Base Coating For A Pyramic System.....	187.33	
07 51 13 00-0259 LF Silver-Flash® Aluminized Asphalt Fibered Trowel Grade Mastic Used With GarMesh.....	23.83	
07 51 13 00-0260 SQ Solex® White, Kynar® Acrylic Topcoat Roof Coating Used With Pyramic Base Coat.....	250.19	
07 51 13 00-0261 SQ Tuff-Flash™ Multi-Purpose Asphaltic Polyurethane Liquid Flashing Membrane Used With Reinforcing Fabric.....	1,433.32	
07 51 13 00-0262 SQ Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel, Flood Coat (4-5 GAL/SQ).....	318.95	
07 51 13 00-0263 SQ Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel.....	389.24	
07 51 13 00-0264 SQ Weatherking® Cold Applied Rubber Modified Asphalt Interply Adhesive For Slopes Up To 3:12, Interply.....	144.83	
07 51 13 00-0265 SQ Weatherking® Flashing Adhesive Brush Grade, Cold Applied Asphalt Adhesive For Flashings In A Weatherking System.....	478.22	
07 51 13 00-0266 SQ Weatherking® Plus WC Cold Applied Rubber Modified, VOC Compliant Asphalt Interply Adhesive For Slopes Up To 2:12, Interply.....	143.74	
Note: Inner ply and flood coat SEBS modified adhesive for all cold systems with gravel.		
07 52 Modified Bituminous Membrane Roofing (07 50)		
07 52 13 Atactic-Polypropylene Modified Bituminous Membrane Roofing (07 52)		
Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.		
07 52 13 11 Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13)		
07 52 13 11-0001 Cold Adhesive Applied Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing (07 52 13 11)		
Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.		
07 52 13 11-0002 Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 13 11-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 13 11-0003 SQ 80 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Sheet, Cold Adhesive Applied	216.49	
For Up To 10, Add	50.53	
For >10 To 20, Add	27.07	
For >20 To 40, Add	14.44	
For >75 To 100, Deduct	-7.22	
For >100 To 200, Deduct	-15.34	
For >200, Deduct	-22.56	
07 52 13 11-0004 SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied	264.20	
For Up To 10, Add	60.07	
For >10 To 20, Add	31.84	
For >20 To 40, Add	16.83	
For >75 To 100, Deduct	-8.41	
For >100 To 200, Deduct	-17.73	
For >200, Deduct	-26.14	
07 52 13 11-0005 SQ 160 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Cold Adhesive Applied	416.53	
For Up To 10, Add	90.54	
For >10 To 20, Add	47.08	
For >20 To 40, Add	24.44	
For >75 To 100, Deduct	-12.22	
For >100 To 200, Deduct	-25.35	
For >200, Deduct	-37.57	
07 52 13 11-0006 SQ 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	419.97	
For Up To 10, Add	91.91	
For >10 To 20, Add	47.94	
For >20 To 40, Add	24.96	
For >75 To 100, Deduct	-12.48	
For >100 To 200, Deduct	-25.95	
For >200, Deduct	-38.43	
07 52 13 11-0007 SQ 160 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	299.65	
For Up To 10, Add	67.85	
For >10 To 20, Add	35.91	
For >20 To 40, Add	18.94	
For >75 To 100, Deduct	-9.47	
For >100 To 200, Deduct	-19.93	
For >200, Deduct	-29.40	
For Factory Applied White Reflective Surfacing, Add	101.15	
07 52 13 11-0008 SQ 160 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	347.91	
For Up To 10, Add	77.50	
For >10 To 20, Add	40.73	
For >20 To 40, Add	21.36	
For >75 To 100, Deduct	-10.68	
For >100 To 200, Deduct	-22.35	
For >200, Deduct	-33.02	
For Factory Applied White Reflective Surfacing, Add	101.15	
07 52 13 11-0009 SQ 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	479.38	
For Up To 10, Add	103.80	
For >10 To 20, Add	53.88	
For >20 To 40, Add	27.93	
For >75 To 100, Deduct	-13.96	
For >100 To 200, Deduct	-28.92	
For >200, Deduct	-42.88	
For Factory Applied White Reflective Surfacing, Add	101.15	
 07 52 13 11-0010 Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Flashing <small>(07 52 13 11-0001)</small>		
07 52 13 11-0011 SF 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied	5.96	
07 52 13 11-0012 SF 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied	9.21	
For Factory Applied White Reflective Surfacing, Add	1.01	
 07 52 13 13 Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing <small>(07 52 13)</small>		
07 52 13 13-0001 Torch-Applied Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing <small>(07 52 13 13)</small>		
Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.		
07 52 13 13-0002 Torch-Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base, Ply And Cap Sheets <small>(07 52 13 13-0001)</small>		
07 52 13 13-0003 SQ 80 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Sheet, Torch-Applied	155.36	
For Up To 10, Add	38.30	
For >10 To 20, Add	20.95	
For >20 To 40, Add	11.38	
For >75 To 100, Deduct	-5.69	
For >100 To 200, Deduct	-12.28	
For >200, Deduct	-17.97	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 13 13-0004 SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Torch-Applied.....	203.07	
For Up To 10, Add	47.84	
For >10 To 20, Add	25.73	
For >20 To 40, Add	13.77	
For >75 To 100, Deduct	-6.88	
For >100 To 200, Deduct	-14.67	
For >200, Deduct	-21.55	
07 52 13 13-0005 SQ 150 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied.....	243.60	
For Up To 10, Add	59.57	
For >10 To 20, Add	32.50	
For >20 To 40, Add	17.61	
For >75 To 100, Deduct	-8.80	
For >100 To 200, Deduct	-18.96	
For >200, Deduct	-27.76	
07 52 13 13-0006 SQ 160 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied.....	255.82	
For Up To 10, Add	62.01	
For >10 To 20, Add	33.72	
For >20 To 40, Add	18.22	
For >75 To 100, Deduct	-9.11	
For >100 To 200, Deduct	-19.57	
For >200, Deduct	-28.68	
07 52 13 13-0007 SQ 180 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied.....	354.92	
For Up To 10, Add	81.83	
For >10 To 20, Add	43.63	
For >20 To 40, Add	23.17	
For >75 To 100, Deduct	-11.59	
For >100 To 200, Deduct	-24.53	
For >200, Deduct	-36.11	
07 52 13 13-0008 SQ 150 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	243.60	
For Up To 10, Add	59.57	
For >10 To 20, Add	32.50	
For >20 To 40, Add	17.61	
For >75 To 100, Deduct	-8.80	
For >100 To 200, Deduct	-18.96	
For >200, Deduct	-27.76	
07 52 13 13-0009 SQ 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	258.87	
For Up To 10, Add	62.62	
For >10 To 20, Add	34.02	
For >20 To 40, Add	18.37	
For >75 To 100, Deduct	-9.18	
For >100 To 200, Deduct	-19.72	
For >200, Deduct	-28.91	
07 52 13 13-0010 SQ 180 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	354.92	
For Up To 10, Add	81.83	
For >10 To 20, Add	43.63	
For >20 To 40, Add	23.17	
For >75 To 100, Deduct	-11.59	
For >100 To 200, Deduct	-24.53	
For >200, Deduct	-36.11	
07 52 13 13-0011 SQ 160 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	253.22	
For Up To 10, Add	61.49	
For >10 To 20, Add	33.46	
For >20 To 40, Add	18.09	
For >75 To 100, Deduct	-9.04	
For >100 To 200, Deduct	-19.44	
For >200, Deduct	-28.49	
For Factory Applied White Reflective Surfacing, Add	101.15	
07 52 13 13-0012 SQ 170 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	268.03	
For Up To 10, Add	64.46	
For >10 To 20, Add	34.94	
For >20 To 40, Add	18.83	
For >75 To 100, Deduct	-9.41	
For >100 To 200, Deduct	-20.18	
For >200, Deduct	-29.60	
For Factory Applied White Reflective Surfacing, Add	101.15	
07 52 13 13-0013 SQ 160 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	304.38	
For Up To 10, Add	71.73	
For >10 To 20, Add	38.58	
For >20 To 40, Add	20.64	
For >75 To 100, Deduct	-10.32	
For >100 To 200, Deduct	-22.00	
For >200, Deduct	-32.32	
For Factory Applied White Reflective Surfacing, Add	101.15	
07 52 13 13-0014 SQ 170 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	308.80	
For Up To 10, Add	72.61	
For >10 To 20, Add	39.02	
For >20 To 40, Add	20.87	
For >75 To 100, Deduct	-10.43	
For >100 To 200, Deduct	-22.22	
For >200, Deduct	-32.65	
For Factory Applied White Reflective Surfacing, Add	101.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 13 13-0015 SQ 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	432.95	
For Up To 10, Add	97.44	
For >10 To 20, Add	51.43	
For >20 To 40, Add	27.07	
For >75 To 100, Deduct	-13.54	
For >100 To 200, Deduct	-28.43	
For >200, Deduct	-41.97	
For Factory Applied White Reflective Surfacing, Add	101.15	
07 52 13 13-0016 Torch-Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Flashing <small>(07 52 13 13-0001)</small>		
07 52 13 13-0017 SF 150 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	3.51	
07 52 13 13-0018 SF 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	3.67	
07 52 13 13-0019 SF 180 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	4.63	
07 52 13 13-0020 SF 170 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	3.76	
For Factory Applied White Reflective Surfacing, Add	1.01	
07 52 13 13-0021 SF 170 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	4.17	
For Factory Applied White Reflective Surfacing, Add	1.01	
07 52 13 13-0022 SF 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	5.41	
For Factory Applied White Reflective Surfacing, Add	1.01	
07 52 13 14 Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane Roofing <small>(07 52 13)</small>		
07 52 13 14-0001 Mechanically Fastened Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing <small>(07 52 13 14)</small>		
Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.		
07 52 13 14-0002 Mechanically Fastened, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base And Ply Sheets <small>(07 52 13 14-0001)</small>		
07 52 13 14-0003 SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Mechanically Fastened	232.57	
For Up To 10, Add	50.13	
For >10 To 20, Add	25.97	
For >20 To 40, Add	13.43	
For >75 To 100, Deduct	-6.72	
For >100 To 200, Deduct	-13.89	
For >200, Deduct	-20.60	
07 52 16 Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing <small>(07 52)</small>		
Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.		
07 52 16 11 Cold Adhesive Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing <small>(07 52 16)</small>		
07 52 16 11-0001 Cold Adhesive Applied Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing <small>(07 52 16 11)</small>		
Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.		
07 52 16 11-0002 Cold Adhesive Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets <small>(07 52 16 11-0001)</small>		
07 52 16 11-0003 SQ 50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied	169.77	
For Up To 10, Add	41.19	
For >10 To 20, Add	22.40	
For >20 To 40, Add	12.10	
For >75 To 100, Deduct	-6.05	
For >100 To 200, Deduct	-13.01	
For >200, Deduct	-19.06	
07 52 16 11-0004 SQ 80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied	222.75	
For Up To 10, Add	51.78	
For >10 To 20, Add	27.70	
For >20 To 40, Add	14.75	
For >75 To 100, Deduct	-7.38	
For >100 To 200, Deduct	-15.66	
For >200, Deduct	-23.03	
07 52 16 11-0005 SQ 90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied	229.58	
For Up To 10, Add	53.15	
For >10 To 20, Add	28.38	
For >20 To 40, Add	15.10	
For >75 To 100, Deduct	-7.55	
For >100 To 200, Deduct	-16.00	
For >200, Deduct	-23.55	
07 52 16 11-0006 SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied.....	314.08	
For Up To 10, Add	70.05	
For >10 To 20, Add	36.83	
For >20 To 40, Add	19.32	
For >75 To 100, Deduct	-9.66	
For >100 To 200, Deduct	-20.22	
For >200, Deduct	-29.88	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 11-0007	SQ	125 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Cold Adhesive Applied.....	399.59	
		<i>For Up To 10, Add</i>	87.15	
		<i>For >10 To 20, Add</i>	45.38	
		<i>For >20 To 40, Add</i>	23.60	
		<i>For >75 To 100, Deduct</i>	-11.80	
		<i>For >100 To 200, Deduct</i>	-24.50	
		<i>For >200, Deduct</i>	-36.30	
07 52 16 11-0008	SQ	140 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	332.15	
		<i>For Up To 10, Add</i>	74.35	
		<i>For >10 To 20, Add</i>	39.16	
		<i>For >20 To 40, Add</i>	20.57	
		<i>For >75 To 100, Deduct</i>	-10.28	
		<i>For >100 To 200, Deduct</i>	-21.56	
		<i>For >200, Deduct</i>	-31.84	
07 52 16 11-0009	SQ	150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	341.34	
		<i>For Up To 10, Add</i>	76.19	
		<i>For >10 To 20, Add</i>	40.07	
		<i>For >20 To 40, Add</i>	21.03	
		<i>For >75 To 100, Deduct</i>	-10.51	
		<i>For >100 To 200, Deduct</i>	-22.02	
		<i>For >200, Deduct</i>	-32.53	
07 52 16 11-0010	SQ	125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	298.28	
		<i>For Up To 10, Add</i>	67.58	
		<i>For >10 To 20, Add</i>	35.77	
		<i>For >20 To 40, Add</i>	18.87	
		<i>For >75 To 100, Deduct</i>	-9.44	
		<i>For >100 To 200, Deduct</i>	-19.86	
		<i>For >200, Deduct</i>	-29.30	
		<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 11-0011	SQ	140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	302.25	
		<i>For Up To 10, Add</i>	68.37	
		<i>For >10 To 20, Add</i>	36.17	
		<i>For >20 To 40, Add</i>	19.07	
		<i>For >75 To 100, Deduct</i>	-9.54	
		<i>For >100 To 200, Deduct</i>	-20.06	
		<i>For >200, Deduct</i>	-29.60	
		<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 11-0012	SQ	150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	338.90	
		<i>For Up To 10, Add</i>	75.70	
		<i>For >10 To 20, Add</i>	39.83	
		<i>For >20 To 40, Add</i>	20.91	
		<i>For >75 To 100, Deduct</i>	-10.45	
		<i>For >100 To 200, Deduct</i>	-21.90	
		<i>For >200, Deduct</i>	-32.35	
		<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 11-0013	SQ	160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	345.00	
		<i>For Up To 10, Add</i>	76.92	
		<i>For >10 To 20, Add</i>	40.44	
		<i>For >20 To 40, Add</i>	21.21	
		<i>For >75 To 100, Deduct</i>	-10.61	
		<i>For >100 To 200, Deduct</i>	-22.20	
		<i>For >200, Deduct</i>	-32.81	
		<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 11-0014	SQ	170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	398.45	
		<i>For Up To 10, Add</i>	87.61	
		<i>For >10 To 20, Add</i>	45.79	
		<i>For >20 To 40, Add</i>	23.88	
		<i>For >75 To 100, Deduct</i>	-11.94	
		<i>For >100 To 200, Deduct</i>	-24.87	
		<i>For >200, Deduct</i>	-36.81	
		<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 11-0015	SQ	180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	495.81	
		<i>For Up To 10, Add</i>	107.08	
		<i>For >10 To 20, Add</i>	55.52	
		<i>For >20 To 40, Add</i>	28.75	
		<i>For >75 To 100, Deduct</i>	-14.38	
		<i>For >100 To 200, Deduct</i>	-29.74	
		<i>For >200, Deduct</i>	-44.12	
		<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 11-0016	SQ	125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	304.90	
		<i>For Up To 10, Add</i>	68.90	
		<i>For >10 To 20, Add</i>	36.43	
		<i>For >20 To 40, Add</i>	19.21	
		<i>For >75 To 100, Deduct</i>	-9.60	
		<i>For >100 To 200, Deduct</i>	-20.20	
		<i>For >200, Deduct</i>	-29.80	
		<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 11-0017 SQ 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	314.46	
<i>For Up To 10, Add</i>	70.81	
<i>For >10 To 20, Add</i>	37.39	
<i>For >20 To 40, Add</i>	19.68	
<i>For >75 To 100, Deduct</i>	-9.84	
<i>For >100 To 200, Deduct</i>	-20.67	
<i>For >200, Deduct</i>	-30.51	
<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 11-0018 SQ 150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	366.38	
<i>For Up To 10, Add</i>	81.20	
<i>For >10 To 20, Add</i>	42.58	
<i>For >20 To 40, Add</i>	22.28	
<i>For >75 To 100, Deduct</i>	-11.14	
<i>For >100 To 200, Deduct</i>	-23.27	
<i>For >200, Deduct</i>	-34.41	
<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 11-0019 SQ 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	367.60	
<i>For Up To 10, Add</i>	81.44	
<i>For >10 To 20, Add</i>	42.70	
<i>For >20 To 40, Add</i>	22.34	
<i>For >75 To 100, Deduct</i>	-11.17	
<i>For >100 To 200, Deduct</i>	-23.33	
<i>For >200, Deduct</i>	-34.50	
<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 11-0020 SQ 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	390.81	
<i>For Up To 10, Add</i>	86.08	
<i>For >10 To 20, Add</i>	45.02	
<i>For >20 To 40, Add</i>	23.50	
<i>For >75 To 100, Deduct</i>	-11.75	
<i>For >100 To 200, Deduct</i>	-24.49	
<i>For >200, Deduct</i>	-36.24	
<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 11-0021 Cold Adhesive Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing (07 52 16 11-0001)		
07 52 16 11-0022 SF 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	5.17	
07 52 16 11-0023 SF 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	4.74	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 11-0024 SF 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	4.78	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 11-0025 SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	5.21	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 11-0026 SF 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	5.74	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 11-0027 SF 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	6.72	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 11-0028 SF 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	4.81	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 11-0029 SF 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	4.90	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 11-0030 SF 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	5.44	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 11-0031 SF 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	5.67	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 11-0032 SF 145 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	7.57	
07 52 16 11-0033 SF 160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	14.43	
07 52 16 12 Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)		
07 52 16 12-0001 Hot-Mopped Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing (07 52 16 12)		
Note: Includes fiberglass and/or polyester reinforcement. Includes mopping hot asphalt and embedding the membrane.		
07 52 16 12-0002 Hot-Mopped, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 12-0001)		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 12-0003	SQ		50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped.....	138.65	
			<i>For Up To 10, Add</i>	35.10	
			<i>For >10 To 20, Add</i>	19.39	
			<i>For >20 To 40, Add</i>	10.62	
			<i>For >75 To 100, Deduct</i>	-5.31	
			<i>For >100 To 200, Deduct</i>	-11.54	
			<i>For >200, Deduct</i>	-16.85	
07 52 16 12-0004	SQ		80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped.....	191.62	
			<i>For Up To 10, Add</i>	45.69	
			<i>For >10 To 20, Add</i>	24.69	
			<i>For >20 To 40, Add</i>	13.27	
			<i>For >75 To 100, Deduct</i>	-6.63	
			<i>For >100 To 200, Deduct</i>	-14.19	
			<i>For >200, Deduct</i>	-20.82	
07 52 16 12-0005	SQ		90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped.....	198.45	
			<i>For Up To 10, Add</i>	47.06	
			<i>For >10 To 20, Add</i>	25.37	
			<i>For >20 To 40, Add</i>	13.61	
			<i>For >75 To 100, Deduct</i>	-6.80	
			<i>For >100 To 200, Deduct</i>	-14.53	
			<i>For >200, Deduct</i>	-21.33	
07 52 16 12-0006	SQ		120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Hot-Mopped.....	282.95	
			<i>For Up To 10, Add</i>	63.96	
			<i>For >10 To 20, Add</i>	33.82	
			<i>For >20 To 40, Add</i>	17.83	
			<i>For >75 To 100, Deduct</i>	-8.92	
			<i>For >100 To 200, Deduct</i>	-18.75	
			<i>For >200, Deduct</i>	-27.67	
07 52 16 12-0007	SQ		125 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Hot-Mopped.....	368.46	
			<i>For Up To 10, Add</i>	81.06	
			<i>For >10 To 20, Add</i>	42.37	
			<i>For >20 To 40, Add</i>	22.11	
			<i>For >75 To 100, Deduct</i>	-11.05	
			<i>For >100 To 200, Deduct</i>	-23.03	
			<i>For >200, Deduct</i>	-34.08	
07 52 16 12-0008	SQ		140 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	301.08	
			<i>For Up To 10, Add</i>	68.29	
			<i>For >10 To 20, Add</i>	36.16	
			<i>For >20 To 40, Add</i>	19.09	
			<i>For >75 To 100, Deduct</i>	-9.54	
			<i>For >100 To 200, Deduct</i>	-20.10	
			<i>For >200, Deduct</i>	-29.64	
07 52 16 12-0009	SQ		150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	310.27	
			<i>For Up To 10, Add</i>	70.12	
			<i>For >10 To 20, Add</i>	37.08	
			<i>For >20 To 40, Add</i>	19.55	
			<i>For >75 To 100, Deduct</i>	-9.77	
			<i>For >100 To 200, Deduct</i>	-20.56	
			<i>For >200, Deduct</i>	-30.33	
07 52 16 12-0010	SQ		125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	267.21	
			<i>For Up To 10, Add</i>	61.51	
			<i>For >10 To 20, Add</i>	32.77	
			<i>For >20 To 40, Add</i>	17.40	
			<i>For >75 To 100, Deduct</i>	-8.70	
			<i>For >100 To 200, Deduct</i>	-18.40	
			<i>For >200, Deduct</i>	-27.10	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 12-0011	SQ		140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	271.18	
			<i>For Up To 10, Add</i>	62.31	
			<i>For >10 To 20, Add</i>	33.17	
			<i>For >20 To 40, Add</i>	17.59	
			<i>For >75 To 100, Deduct</i>	-8.80	
			<i>For >100 To 200, Deduct</i>	-18.60	
			<i>For >200, Deduct</i>	-27.40	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 12-0012	SQ		150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	307.83	
			<i>For Up To 10, Add</i>	69.64	
			<i>For >10 To 20, Add</i>	36.84	
			<i>For >20 To 40, Add</i>	19.43	
			<i>For >75 To 100, Deduct</i>	-9.71	
			<i>For >100 To 200, Deduct</i>	-20.44	
			<i>For >200, Deduct</i>	-30.15	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 12-0013	SQ		160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	313.94	
			<i>For Up To 10, Add</i>	70.86	
			<i>For >10 To 20, Add</i>	37.45	
			<i>For >20 To 40, Add</i>	19.73	
			<i>For >75 To 100, Deduct</i>	-9.87	
			<i>For >100 To 200, Deduct</i>	-20.74	
			<i>For >200, Deduct</i>	-30.61	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 12-0014 SQ 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	367.38	
<i>For Up To 10, Add</i>	81.55	
<i>For >10 To 20, Add</i>	42.79	
<i>For >20 To 40, Add</i>	22.40	
<i>For >75 To 100, Deduct</i>	-11.20	
<i>For >100 To 200, Deduct</i>	-23.41	
<i>For >200, Deduct</i>	-34.61	
<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 12-0015 SQ 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	464.74	
<i>For Up To 10, Add</i>	101.02	
<i>For >10 To 20, Add</i>	52.53	
<i>For >20 To 40, Add</i>	27.27	
<i>For >75 To 100, Deduct</i>	-13.64	
<i>For >100 To 200, Deduct</i>	-28.28	
<i>For >200, Deduct</i>	-41.92	
<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 12-0016 SQ 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	273.84	
<i>For Up To 10, Add</i>	62.84	
<i>For >10 To 20, Add</i>	33.44	
<i>For >20 To 40, Add</i>	17.73	
<i>For >75 To 100, Deduct</i>	-8.86	
<i>For >100 To 200, Deduct</i>	-18.74	
<i>For >200, Deduct</i>	-27.60	
<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 12-0017 SQ 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	283.40	
<i>For Up To 10, Add</i>	64.75	
<i>For >10 To 20, Add</i>	34.39	
<i>For >20 To 40, Add</i>	18.21	
<i>For >75 To 100, Deduct</i>	-9.10	
<i>For >100 To 200, Deduct</i>	-19.21	
<i>For >200, Deduct</i>	-28.32	
<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 12-0018 SQ 150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	335.31	
<i>For Up To 10, Add</i>	75.13	
<i>For >10 To 20, Add</i>	39.58	
<i>For >20 To 40, Add</i>	20.80	
<i>For >75 To 100, Deduct</i>	-10.40	
<i>For >100 To 200, Deduct</i>	-21.81	
<i>For >200, Deduct</i>	-32.21	
<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 12-0019 SQ 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	336.54	
<i>For Up To 10, Add</i>	75.38	
<i>For >10 To 20, Add</i>	39.71	
<i>For >20 To 40, Add</i>	20.86	
<i>For >75 To 100, Deduct</i>	-10.43	
<i>For >100 To 200, Deduct</i>	-21.87	
<i>For >200, Deduct</i>	-32.30	
<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 12-0020 SQ 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	359.75	
<i>For Up To 10, Add</i>	80.02	
<i>For >10 To 20, Add</i>	42.03	
<i>For >20 To 40, Add</i>	22.02	
<i>For >75 To 100, Deduct</i>	-11.01	
<i>For >100 To 200, Deduct</i>	-23.03	
<i>For >200, Deduct</i>	-34.04	
<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 12-0021 Hot-Mopped, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing <small>(07 52 16 12-0001)</small>		
07 52 16 12-0022 SF 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	5.00	
07 52 16 12-0023 SF 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.57	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 12-0024 SF 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.61	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 12-0025 SF 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.97	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 12-0026 SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	5.03	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 12-0027 SF 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	5.57	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 12-0028 SF 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	6.54	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 12-0029 SF 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.63	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 12-0030 SF 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.73	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 12-0031	SF		160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	5.16	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 12-0032	SF		170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	5.49	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 12-0033	SF		145 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	7.39	
07 52 16 12-0034	SF		160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	14.26	
07 52 16 13 Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing					
07 52 16 13-0001 Torch-Applied Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing					
<i>(07 52 16 13)</i>					
Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.					
07 52 16 13-0002 Torch-Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets					
<i>(07 52 16 13-0001)</i>					
07 52 16 13-0003	SQ		120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Torch-Applied.....	286.36	
			<i>For Up To 10, Add</i>	68.12	
			<i>For >10 To 20, Add</i>	36.77	
			<i>For >20 To 40, Add</i>	19.74	
			<i>For >75 To 100, Deduct</i>	-9.87	
			<i>For >100 To 200, Deduct</i>	-21.10	
			<i>For >200, Deduct</i>	-30.97	
07 52 16 13-0004	SQ		150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	256.73	
			<i>For Up To 10, Add</i>	62.20	
			<i>For >10 To 20, Add</i>	33.81	
			<i>For >20 To 40, Add</i>	18.26	
			<i>For >75 To 100, Deduct</i>	-9.13	
			<i>For >100 To 200, Deduct</i>	-19.62	
			<i>For >200, Deduct</i>	-28.75	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 13-0005	SQ		160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	291.55	
			<i>For Up To 10, Add</i>	69.16	
			<i>For >10 To 20, Add</i>	37.29	
			<i>For >20 To 40, Add</i>	20.00	
			<i>For >75 To 100, Deduct</i>	-10.00	
			<i>For >100 To 200, Deduct</i>	-21.36	
			<i>For >200, Deduct</i>	-31.36	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 13-0006	SQ		180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	449.38	
			<i>For Up To 10, Add</i>	100.73	
			<i>For >10 To 20, Add</i>	53.08	
			<i>For >20 To 40, Add</i>	27.89	
			<i>For >75 To 100, Deduct</i>	-13.95	
			<i>For >100 To 200, Deduct</i>	-29.25	
			<i>For >200, Deduct</i>	-43.20	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 13-0007	SQ		150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	266.69	
			<i>For Up To 10, Add</i>	64.19	
			<i>For >10 To 20, Add</i>	34.81	
			<i>For >20 To 40, Add</i>	18.76	
			<i>For >75 To 100, Deduct</i>	-9.38	
			<i>For >100 To 200, Deduct</i>	-20.12	
			<i>For >200, Deduct</i>	-29.50	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 13-0008	SQ		160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	307.74	
			<i>For Up To 10, Add</i>	72.40	
			<i>For >10 To 20, Add</i>	38.91	
			<i>For >20 To 40, Add</i>	20.81	
			<i>For >75 To 100, Deduct</i>	-10.41	
			<i>For >100 To 200, Deduct</i>	-22.17	
			<i>For >200, Deduct</i>	-32.57	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 13-0009	SQ		165 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	320.97	
			<i>For Up To 10, Add</i>	75.25	
			<i>For >10 To 20, Add</i>	40.39	
			<i>For >20 To 40, Add</i>	21.58	
			<i>For >75 To 100, Deduct</i>	-10.79	
			<i>For >100 To 200, Deduct</i>	-22.96	
			<i>For >200, Deduct</i>	-33.75	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	
07 52 16 13-0010	SQ		180 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	416.78	
			<i>For Up To 10, Add</i>	94.41	
			<i>For >10 To 20, Add</i>	49.97	
			<i>For >20 To 40, Add</i>	26.37	
			<i>For >75 To 100, Deduct</i>	-13.18	
			<i>For >100 To 200, Deduct</i>	-27.75	
			<i>For >200, Deduct</i>	-40.93	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	101.15	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 52 16 13-0011			Torch-Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing <small>(07 52 16 13-0001)</small>		
07 52 16 13-0012	SF		150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....	4.03	
07 52 16 13-0013	SF		150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	4.00	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 13-0014	SF		180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	5.57	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 13-0015	SF		160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	4.19	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 13-0016	SF		165 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	4.28	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 13-0017	SF		180 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	5.24	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	1.01	
07 52 16 13-0018	SF		150 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	5.45	
07 52 16 13-0019	SF		160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	13.29	

07 52 16 14 Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)

07 52 16 14-0001			Mechanically Fastened Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing <small>(07 52 16 14)</small>		
			<small>Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.</small>		
07 52 16 14-0002			Mechanically Fastened, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base And Ply Sheets <small>(07 52 16 14-0001)</small>		
07 52 16 14-0003	SQ		35 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Mechanically Fastened	179.94	
			<i>For Up To 10, Add</i>	39.60	
			<i>For >10 To 20, Add</i>	20.70	
			<i>For >20 To 40, Add</i>	10.80	
			<i>For >75 To 100, Deduct</i>	-5.40	
			<i>For >100 To 200, Deduct</i>	-11.25	
			<i>For >200, Deduct</i>	-16.66	
07 52 16 14-0004	SQ		50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened	138.15	
			<i>For Up To 10, Add</i>	31.24	
			<i>For >10 To 20, Add</i>	16.52	
			<i>For >20 To 40, Add</i>	8.71	
			<i>For >75 To 100, Deduct</i>	-4.36	
			<i>For >100 To 200, Deduct</i>	-9.17	
			<i>For >200, Deduct</i>	-13.52	
07 52 16 14-0005	SQ		80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened	179.28	
			<i>For Up To 10, Add</i>	39.47	
			<i>For >10 To 20, Add</i>	20.64	
			<i>For >20 To 40, Add</i>	10.77	
			<i>For >75 To 100, Deduct</i>	-5.39	
			<i>For >100 To 200, Deduct</i>	-11.22	
			<i>For >200, Deduct</i>	-16.61	
07 52 16 14-0006	SQ		90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened	224.73	
			<i>For Up To 10, Add</i>	48.56	
			<i>For >10 To 20, Add</i>	25.18	
			<i>For >20 To 40, Add</i>	13.04	
			<i>For >75 To 100, Deduct</i>	-6.52	
			<i>For >100 To 200, Deduct</i>	-13.49	
			<i>For >200, Deduct</i>	-20.02	
07 52 16 14-0007	SQ		120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Mechanically Fastened	282.45	
			<i>For Up To 10, Add</i>	60.10	
			<i>For >10 To 20, Add</i>	30.95	
			<i>For >20 To 40, Add</i>	15.93	
			<i>For >75 To 100, Deduct</i>	-7.96	
			<i>For >100 To 200, Deduct</i>	-16.38	
			<i>For >200, Deduct</i>	-24.34	
07 52 16 14-0008			Mechanically Fastened, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing <small>(07 52 16 14-0001)</small>		
07 52 16 14-0009	SF		150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Mechanically Fastened	3.50	
07 52 16 14-0010	SF		160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Mechanically Fastened	3.58	

07 52 16 15 Self-Adhering Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)

07 52 16 15-0001			Self-Adhering Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing <small>(07 52 16 15)</small>		
			<small>Note: Includes fiberglass and/or polyester reinforcement. Includes removing the release film(s) from the membrane and applying the membrane.</small>		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 15-0002 Self-Adhering, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 15-0001)		
07 52 16 15-0003 SQ 60 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering.....	143.75	
For Up To 10, Add	33.09	
For >10 To 20, Add	17.63	
For >20 To 40, Add	9.36	
For >75 To 100, Deduct	-4.68	
For >100 To 200, Deduct	-9.90	
For >200, Deduct	-14.58	
07 52 16 15-0004 SQ 70 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering.....	152.41	
For Up To 10, Add	34.82	
For >10 To 20, Add	18.50	
For >20 To 40, Add	9.79	
For >75 To 100, Deduct	-4.90	
For >100 To 200, Deduct	-10.33	
For >200, Deduct	-15.23	
07 52 16 15-0005 SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering.....	258.11	
For Up To 10, Add	56.29	
For >10 To 20, Add	29.31	
For >20 To 40, Add	15.24	
For >75 To 100, Deduct	-7.62	
For >100 To 200, Deduct	-15.82	
For >200, Deduct	-23.44	
07 52 16 15-0006 SQ 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Self-Adhering.....	308.87	
For Up To 10, Add	66.44	
For >10 To 20, Add	34.39	
For >20 To 40, Add	17.78	
For >75 To 100, Deduct	-8.89	
For >100 To 200, Deduct	-18.36	
For >200, Deduct	-27.25	
For Factory Applied White Reflective Surfacing, Add	101.15	
07 52 16 15-0007 SQ 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Self-Adhering.....	458.52	
For Up To 10, Add	96.37	
For >10 To 20, Add	49.35	
For >20 To 40, Add	25.26	
For >75 To 100, Deduct	-12.63	
For >100 To 200, Deduct	-25.84	
For >200, Deduct	-38.47	
For Factory Applied White Reflective Surfacing, Add	101.15	
07 52 16 15-0008 Self-Adhering, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing (07 52 16 15-0001)		
07 52 16 15-0009 SF 70 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering.....	3.98	
07 52 16 15-0010 SF 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering.....	4.48	
For Factory Applied White Reflective Surfacing, Add	1.01	
07 52 16 15-0011 SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering.....	5.97	
For Factory Applied White Reflective Surfacing, Add	1.01	
07 53 Elastomeric Membrane Roofing (07 50)		
Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.		
07 53 16 Chlorosulfonate-Polyethylene Roofing (07 53)		
07 53 16 00-0001 Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membranes (07 53 16)		
Note: Includes hot air welding or adhesive bonding of seams.		
07 53 16 00-0002 SQ 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Fully Adhered.....	556.74	86.79
Note: Includes adhesive.		
For Up To 10, Add	146.06	
For >10 To 20, Add	81.71	
For >20 To 40, Add	45.20	
For >75 To 100, Deduct	-22.60	
For >100 To 200, Deduct	-49.53	
For >200, Deduct	-72.13	
For 15 Year Warranty, Add	3.00	
07 53 16 00-0003 SQ 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Ballasted.....	420.82	43.40
Note: Includes ballast.		
For Up To 10, Add	101.52	
For >10 To 20, Add	55.10	
For >20 To 40, Add	29.72	
For >75 To 100, Deduct	-14.86	
For >100 To 200, Deduct	-31.89	
For >200, Deduct	-46.75	
For 15 Year Warranty, Add	3.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 16 00-0004 SQ 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Mechanically Fastened.....	449.02	65.09
Note: Includes fasteners.		
For Up To 10, Add	115.84	
For >10 To 20, Add	64.43	
For >20 To 40, Add	35.47	
For >75 To 100, Deduct	-17.74	
For >100 To 200, Deduct	-38.72	
For >200, Deduct	-56.46	
For 15 Year Warranty, Add	3.00	
For Mechanically Fastened To Concrete Decks, Add	32.55	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	33.78	
07 53 23 Ethylene-Propylene-Diene-Monomer Roofing (07 53)		
07 53 23 00-0001 Ethylene Propylene Diene Monomer (EPDM) Roofing Membranes (07 53 23)		
Note: Includes splicing of seams using adhesive or seam tape. Black ethylene propylene diene monomer (EPDM).		
07 53 23 00-0002 SQ 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted	263.08	43.40
Note: Includes ballast.		
For Up To 10, Add	69.97	
For >10 To 20, Add	39.33	
For >20 To 40, Add	21.83	
For >75 To 100, Deduct	-10.92	
For >100 To 200, Deduct	-24.00	
For >200, Deduct	-34.92	
For 15 Year Warranty, Add	3.00	
For Low Slope Fire Rated, Add	8.13	
For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	23.91	
07 53 23 00-0003 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted	336.57	46.11
Note: Includes ballast.		
For Up To 10, Add	85.76	
For >10 To 20, Add	47.49	
For >20 To 40, Add	26.05	
For >75 To 100, Deduct	-13.02	
For >100 To 200, Deduct	-28.35	
For >200, Deduct	-41.38	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low Slope Fire Rated, Add	8.13	
For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	23.91	
07 53 23 00-0004 SQ 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted	449.13	48.82
Note: Includes ballast.		
For Up To 10, Add	109.35	
For >10 To 20, Add	59.56	
For >20 To 40, Add	32.22	
For >75 To 100, Deduct	-16.11	
For >100 To 200, Deduct	-34.66	
For >200, Deduct	-50.77	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low Slope Fire Rated, Add	8.13	
07 53 23 00-0005 SQ 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%)	313.61	65.09
Note: Includes adhesive and fasteners.		
For Up To 10, Add	88.76	
For >10 To 20, Add	50.89	
For >20 To 40, Add	28.70	
For >75 To 100, Deduct	-14.35	
For >100 To 200, Deduct	-31.95	
For >200, Deduct	-46.30	
For 15 Year Warranty, Add	3.00	
For Low Slope Fire Rated, Add	8.13	
For Low VOC Adhesive, Add	33.16	
For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	23.91	
For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	77.55	
For Integral Polyester Fleece-Backing, Add	111.39	
07 53 23 00-0006 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%)	387.10	67.80
Note: Includes adhesive and fasteners.		
For Up To 10, Add	104.54	
For >10 To 20, Add	59.05	
For >20 To 40, Add	32.92	
For >75 To 100, Deduct	-16.46	
For >100 To 200, Deduct	-36.31	
For >200, Deduct	-52.76	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low Slope Fire Rated, Add	8.13	
For Low VOC Adhesive, Add	33.16	
For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	23.91	
For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	77.55	
For Integral Polyester Fleece-Backing, Add	123.31	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 53 Elastomeric Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 23 00-0007	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%) Note: Includes adhesive and fasteners.	499.66	70.51
			<i>For Up To 10, Add</i>	128.14	
			<i>For >10 To 20, Add</i>	71.12	
			<i>For >20 To 40, Add</i>	39.09	
			<i>For >75 To 100, Deduct</i>	-19.54	
			<i>For >100 To 200, Deduct</i>	-42.61	
			<i>For >200, Deduct</i>	-62.16	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For 20 Year Warranty, Add</i>	7.00	
			<i>For 25 Year Warranty, Add</i>	9.00	
			<i>For Low Slope Fire Rated, Add</i>	8.13	
			<i>For Low VOC Adhesive, Add</i>	33.16	
			<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	77.55	
			<i>For Integral Polyester Fleece-Backing, Add</i>	136.31	
07 53 23 00-0008	SQ		45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered Note: Includes adhesive and fasteners.	414.28	86.79
			<i>For Up To 10, Add</i>	117.57	
			<i>For >10 To 20, Add</i>	67.47	
			<i>For >20 To 40, Add</i>	38.07	
			<i>For >75 To 100, Deduct</i>	-19.04	
			<i>For >100 To 200, Deduct</i>	-42.41	
			<i>For >200, Deduct</i>	-61.45	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For Low Slope Fire Rated, Add</i>	8.13	
			<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	23.91	
			<i>For Low VOC Adhesive, Add</i>	82.91	
			<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	77.55	
			<i>For Integral Polyester Fleece-Backing, Add</i>	111.39	
07 53 23 00-0009	SQ		60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered Note: Includes adhesive and fasteners.	487.77	89.50
			<i>For Up To 10, Add</i>	133.35	
			<i>For >10 To 20, Add</i>	75.63	
			<i>For >20 To 40, Add</i>	42.29	
			<i>For >75 To 100, Deduct</i>	-21.14	
			<i>For >100 To 200, Deduct</i>	-46.76	
			<i>For >200, Deduct</i>	-67.91	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For 20 Year Warranty, Add</i>	7.00	
			<i>For 25 Year Warranty, Add</i>	9.00	
			<i>For Low Slope Fire Rated, Add</i>	8.13	
			<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	23.91	
			<i>For Low VOC Adhesive, Add</i>	82.91	
			<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	77.55	
			<i>For Integral Polyester Fleece-Backing, Add</i>	123.31	
07 53 23 00-0010	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered Note: Includes adhesive and fasteners.	600.33	92.21
			<i>For Up To 10, Add</i>	156.95	
			<i>For >10 To 20, Add</i>	87.70	
			<i>For >20 To 40, Add</i>	48.46	
			<i>For >75 To 100, Deduct</i>	-24.23	
			<i>For >100 To 200, Deduct</i>	-53.07	
			<i>For >200, Deduct</i>	-77.30	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For 20 Year Warranty, Add</i>	7.00	
			<i>For 25 Year Warranty, Add</i>	9.00	
			<i>For Low Slope Fire Rated, Add</i>	8.13	
			<i>For Low VOC Adhesive, Add</i>	82.91	
			<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	77.55	
			<i>For Integral Polyester Fleece-Backing, Add</i>	136.31	
07 53 23 00-0011	SQ		45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened Note: Includes fasteners.	291.06	65.09
			<i>For Up To 10, Add</i>	84.25	
			<i>For >10 To 20, Add</i>	48.63	
			<i>For >20 To 40, Add</i>	27.57	
			<i>For >75 To 100, Deduct</i>	-13.79	
			<i>For >100 To 200, Deduct</i>	-30.83	
			<i>For >200, Deduct</i>	-44.61	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For Low Slope Fire Rated, Add</i>	8.13	
			<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	23.91	
			<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	77.55	
			<i>For Mechanically Fastened To Concrete Decks, Add</i>	32.55	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	33.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 23 00-0012 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened	364.55	67.80
Note: Includes fasteners.		
For Up To 10, Add	100.03	
For >10 To 20, Add	56.80	
For >20 To 40, Add	31.79	
For >75 To 100, Deduct	-15.89	
For >100 To 200, Deduct	-35.18	
For >200, Deduct	-51.07	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low Slope Fire Rated, Add	8.13	
For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	23.91	
For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	77.55	
For Mechanically Fastened To Concrete Decks, Add	33.90	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	35.13	
07 53 23 00-0013 SQ 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened	477.10	70.51
Note: Includes fasteners.		
For Up To 10, Add	123.63	
For >10 To 20, Add	68.87	
For >20 To 40, Add	37.96	
For >75 To 100, Deduct	-18.98	
For >100 To 200, Deduct	-41.49	
For >200, Deduct	-60.46	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low Slope Fire Rated, Add	8.13	
For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	77.55	
For Mechanically Fastened To Concrete Decks, Add	35.26	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	36.49	
07 53 23 00-0014 Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane		
Accessories (07 53 23)		
07 53 23 00-0015 SQ Acrylic, Ethylene Propylene Diene Monomer (EPDM) Roofing Primer, Price Per Coat	69.25	
For Up To 10, Add	18.19	
For >10 To 20, Add	10.18	
For >20 To 40, Add	5.63	
For >75 To 100, Deduct	-2.82	
For >100 To 200, Deduct	-6.18	
For >200, Deduct	-8.99	
07 53 23 00-0016 SQ Acrylic Elastomeric, Surface Or Base Coating For Ethylene Propylene Diene Monomer (EPDM) Roofing, Price Per Coat	71.62	
Note: 55% solids by volume.		
For Up To 10, Add	18.66	
For >10 To 20, Add	10.42	
For >20 To 40, Add	5.75	
For >75 To 100, Deduct	-2.88	
For >100 To 200, Deduct	-6.29	
For >200, Deduct	-9.17	
07 53 23 00-0017 EA Up To 4" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	43.70	10.31
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0018 EA >4" To 8" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	62.46	10.31
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0019 EA >8" To 13" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	116.61	10.31
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0020 EA 6" Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Penetration Pocket	154.60	11.39
Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 53 23 00-0021 LF 30" Wide, Ethylene Propylene Diene Monomer (EPDM) Walkway Protection Pad	33.94	6.29
Note: Includes factory installed peel and stick adhesive tape.		
07 53 23 00-0022 SF Ethylene Propylene Diene Monomer (EPDM) Membrane Base Flashing	6.46	1.62
07 53 23 00-0023 SF Ethylene Propylene Diene Monomer (EPDM) Membrane Curb Flashing	8.08	2.44
07 53 29 Polyisobutylene Roofing (07 53)		
07 53 29 00-0001 Polyisobutylene (PIB) Roofing Membranes (07 53 29)		
Note: Includes integral polyester fleece-backing. Includes splicing of seams using adhesive or seam tape.		
07 53 29 00-0002 SQ 100 Mil, Single Ply PIB Roofing Membrane, Ballasted	502.68	48.82
Note: Includes ballast.		
For Up To 10, Add	120.06	
For >10 To 20, Add	64.91	
For >20 To 40, Add	34.90	
For >75 To 100, Deduct	-17.45	
For >100 To 200, Deduct	-37.34	
For >200, Deduct	-54.79	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 53 Elastomeric Membrane Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 29 00-0003 SQ 100 Mil, Single Ply PIB Roofing Membrane, Partially Adhered (40%)	561.72	70.51
Note: Includes adhesive.		
For Up To 10, Add	140.55	
For >10 To 20, Add	77.33	
For >20 To 40, Add	42.19	
For >75 To 100, Deduct	-21.10	
For >100 To 200, Deduct	-45.72	
For >200, Deduct	-66.81	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
07 53 29 00-0004 SQ 100 Mil, Single Ply PIB Roofing Membrane, Fully Adhered	675.16	92.21
Note: Includes adhesive.		
For Up To 10, Add	171.92	
For >10 To 20, Add	95.18	
For >20 To 40, Add	52.20	
For >75 To 100, Deduct	-26.10	
For >100 To 200, Deduct	-56.81	
For >200, Deduct	-82.91	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	

07 54 Thermoplastic Membrane Roofing (07 50)

Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.

07 54 19 Polyvinyl-Chloride Roofing (07 54)**07 54 19 00-0001 Reinforced Polyvinyl Chloride (RPVC) Roofing Membranes** (07 54 19)

Note: Includes polyester fabric reinforcement and hot air welding of seams. RPVC membranes meet or exceed all of the requirements of ASTM D4434 Type III.

07 54 19 00-0002 SQ 48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	235.38	43.40
Note: Includes ballast.		
For Up To 10, Add	64.43	
For >10 To 20, Add	36.56	
For >20 To 40, Add	20.45	
For >75 To 100, Deduct	-10.22	
For >100 To 200, Deduct	-22.62	
For >200, Deduct	-32.84	
For 15 Year Warranty, Add	3.00	
For Colors, Add	26.00	
For Integral Polyester Fleece-Backing, Add	44.86	
07 54 19 00-0003 SQ 60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	264.26	46.11
Note: Includes ballast.		
For Up To 10, Add	71.29	
For >10 To 20, Add	40.26	
For >20 To 40, Add	22.43	
For >75 To 100, Deduct	-11.22	
For >100 To 200, Deduct	-24.74	
For >200, Deduct	-35.96	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Colors, Add	26.00	
For Integral Polyester Fleece-Backing, Add	44.86	
07 54 19 00-0004 SQ 72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	296.95	47.46
Note: Includes ballast.		
For Up To 10, Add	78.37	
For >10 To 20, Add	43.93	
For >20 To 40, Add	24.34	
For >75 To 100, Deduct	-12.17	
For >100 To 200, Deduct	-26.71	
For >200, Deduct	-38.88	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Colors, Add	26.00	
For Integral Polyester Fleece-Backing, Add	44.86	
07 54 19 00-0005 SQ 80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	312.70	48.82
Note: Includes ballast.		
For Up To 10, Add	82.07	
For >10 To 20, Add	45.92	
For >20 To 40, Add	25.40	
For >75 To 100, Deduct	-12.70	
For >100 To 200, Deduct	-27.84	
For >200, Deduct	-40.54	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Colors, Add	26.00	
For Integral Polyester Fleece-Backing, Add	44.86	



Thermal And Moisture Protection	07
Membrane Roofing	07 50
Thermoplastic Membrane Roofing	07 54

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 19 00-0006 SQ 48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	390.52	86.79
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	112.82	
<i>For >10 To 20, Add</i>	65.09	
<i>For >20 To 40, Add</i>	36.88	
<i>For >75 To 100, Deduct</i>	-18.44	
<i>For >100 To 200, Deduct</i>	-41.22	
<i>For >200, Deduct</i>	-59.67	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Colors, Add</i>	26.00	
<i>For Low VOC Adhesive, Add</i>	54.07	
<i>For Integral Polyester Fleece-Backing, Add</i>	44.86	
07 54 19 00-0007 SQ 60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	419.40	89.50
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	119.68	
<i>For >10 To 20, Add</i>	68.79	
<i>For >20 To 40, Add</i>	38.87	
<i>For >75 To 100, Deduct</i>	-19.44	
<i>For >100 To 200, Deduct</i>	-43.35	
<i>For >200, Deduct</i>	-62.78	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Low VOC Adhesive, Add</i>	54.07	
<i>For Integral Polyester Fleece-Backing, Add</i>	44.86	
07 54 19 00-0008 SQ 72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	452.09	90.86
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	126.76	
<i>For >10 To 20, Add</i>	72.47	
<i>For >20 To 40, Add</i>	40.78	
<i>For >75 To 100, Deduct</i>	-20.39	
<i>For >100 To 200, Deduct</i>	-45.32	
<i>For >200, Deduct</i>	-65.71	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Low VOC Adhesive, Add</i>	54.07	
<i>For Integral Polyester Fleece-Backing, Add</i>	44.86	
07 54 19 00-0009 SQ 80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	467.85	92.21
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	130.46	
<i>For >10 To 20, Add</i>	74.45	
<i>For >20 To 40, Add</i>	41.84	
<i>For >75 To 100, Deduct</i>	-20.92	
<i>For >100 To 200, Deduct</i>	-46.45	
<i>For >200, Deduct</i>	-67.36	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Low VOC Adhesive, Add</i>	54.07	
<i>For Integral Polyester Fleece-Backing, Add</i>	44.86	
07 54 19 00-0010 SQ 48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened	255.65	65.09
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	77.17	
<i>For >10 To 20, Add</i>	45.09	
<i>For >20 To 40, Add</i>	25.80	
<i>For >75 To 100, Deduct</i>	-12.90	
<i>For >100 To 200, Deduct</i>	-29.06	
<i>For >200, Deduct</i>	-41.96	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Colors, Add</i>	26.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	44.86	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	32.55	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	33.78	
07 54 19 00-0011 SQ 60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened	284.53	67.80
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	84.03	
<i>For >10 To 20, Add</i>	48.79	
<i>For >20 To 40, Add</i>	27.79	
<i>For >75 To 100, Deduct</i>	-13.89	
<i>For >100 To 200, Deduct</i>	-31.18	
<i>For >200, Deduct</i>	-45.07	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	44.86	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	33.90	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	35.13	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 54 Thermoplastic Membrane Roofing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 19 00-0012	SQ	72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened Note: Includes fasteners.	317.22	69.16
		<i>For Up To 10, Add</i>	91.11	
		<i>For >10 To 20, Add</i>	52.47	
		<i>For >20 To 40, Add</i>	29.69	
		<i>For >75 To 100, Deduct</i>	-14.85	
		<i>For >100 To 200, Deduct</i>	-33.15	
		<i>For >200, Deduct</i>	-48.00	
		<i>For 15 Year Warranty, Add</i>	3.00	
		<i>For 20 Year Warranty, Add</i>	7.00	
		<i>For 25 Year Warranty, Add</i>	9.00	
		<i>For Colors, Add</i>	26.00	
		<i>For Integral Polyester Fleece-Backing, Add</i>	44.86	
		<i>For Mechanically Fastened To Concrete Decks, Add</i>	34.58	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	35.81	
07 54 19 00-0013	SQ	80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened Note: Includes fasteners.	332.97	70.51
		<i>For Up To 10, Add</i>	94.80	
		<i>For >10 To 20, Add</i>	54.45	
		<i>For >20 To 40, Add</i>	30.75	
		<i>For >75 To 100, Deduct</i>	-15.38	
		<i>For >100 To 200, Deduct</i>	-34.28	
		<i>For >200, Deduct</i>	-49.65	
		<i>For 15 Year Warranty, Add</i>	3.00	
		<i>For 20 Year Warranty, Add</i>	7.00	
		<i>For 25 Year Warranty, Add</i>	9.00	
		<i>For Colors, Add</i>	26.00	
		<i>For Integral Polyester Fleece-Backing, Add</i>	44.86	
		<i>For Mechanically Fastened To Concrete Decks, Add</i>	35.26	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	36.49	
07 54 19 00-0014		Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane Accessories (07 54 19)		
07 54 19 00-0015	SQ	Acrylic, Polyvinyl Chloride (PVC) Roofing Cleaner/Primer, Price Per Coat..... <i>For Up To 10, Add</i>	69.25 18.19	
		<i>For >10 To 20, Add</i>	10.18	
		<i>For >20 To 40, Add</i>	5.63	
		<i>For >75 To 100, Deduct</i>	-2.82	
		<i>For >100 To 200, Deduct</i>	-6.18	
		<i>For >200, Deduct</i>	-8.99	
07 54 19 00-0016	SQ	Acrylic Elastomeric, Surface Or Base Coating For Polyvinyl Chloride (PVC) Roofing, Price Per Coat..... Note: 55% solids by volume.	71.62	
		<i>For Up To 10, Add</i>	18.66	
		<i>For >10 To 20, Add</i>	10.42	
		<i>For >20 To 40, Add</i>	5.75	
		<i>For >75 To 100, Deduct</i>	-2.88	
		<i>For >100 To 200, Deduct</i>	-6.29	
		<i>For >200, Deduct</i>	-9.17	
07 54 19 00-0017	EA	Up To 3" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot..... Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.	72.26	9.22
07 54 19 00-0018	EA	>3" To 7" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot..... Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.	101.39	10.31
07 54 19 00-0019	EA	>7" To 12" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot..... Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.	129.65	11.39
07 54 19 00-0020	EA	6" Diameter, Prefabricated Polyvinyl Chloride (PVC) Penetration Pocket..... Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.	164.89	11.39
07 54 19 00-0021	LF	36" Wide, Polyvinyl Chloride (PVC) Walkway Protection Pad.....	29.10	6.29
07 54 19 00-0022	SF	Polyvinyl Chloride (PVC) Membrane Base Flashing.....	7.68	1.62
07 54 19 00-0023	SF	Polyvinyl Chloride (PVC) Membrane Curb Flashing.....	9.30	2.44
07 54 19 00-0024	SF	Polyvinyl Chloride (PVC) Clad Edge Metal Or Base Flashing..... Note: 20 Mil polyvinyl chloride (PVC) membrane laminated to 24 gauge galvanized steel.	10.37	1.62
07 54 23		Thermoplastic-Polyolefin Roofing (07 54)		
07 54 23 00-0001		Thermoplastic Polyolefin (TPO) Roofing Membranes (07 54 23)		
		Note: Includes polyester fabric reinforcement and hot air welding of seams.		
07 54 23 00-0002	SQ	45 Mil, Single Ply TPO Roofing Membrane, Fully Adhered..... Note: Includes adhesive.	348.71	86.79
		<i>For Up To 10, Add</i>	104.46	
		<i>For >10 To 20, Add</i>	60.91	
		<i>For >20 To 40, Add</i>	34.79	
		<i>For >75 To 100, Deduct</i>	-17.40	
		<i>For >100 To 200, Deduct</i>	-39.13	
		<i>For >200, Deduct</i>	-56.53	
		<i>For 15 Year Warranty, Add</i>	3.00	
		<i>For Low VOC Adhesive, Add</i>	82.91	
		<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 23 00-0003 SQ 50 Mil, Single Ply TPO Roofing Membrane, Fully Adhered	363.21	88.15
Note: Includes adhesive.		
For Up To 10, Add	107.90	
For >10 To 20, Add	62.76	
For >20 To 40, Add	35.79	
For >75 To 100, Deduct	-17.89	
For >100 To 200, Deduct	-40.20	
For >200, Deduct	-58.09	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low VOC Adhesive, Add	82.91	
For Integral Polyester Fleece-Backing, Add	33.25	
07 54 23 00-0004 SQ 60 Mil, Single Ply TPO Roofing Membrane, Fully Adhered	371.18	89.50
Note: Includes adhesive.		
For Up To 10, Add	110.04	
For >10 To 20, Add	63.97	
For >20 To 40, Add	36.46	
For >75 To 100, Deduct	-18.23	
For >100 To 200, Deduct	-40.93	
For >200, Deduct	-59.16	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low VOC Adhesive, Add	82.91	
For Integral Polyester Fleece-Backing, Add	33.25	
07 54 23 00-0005 SQ 80 Mil, Single Ply TPO Roofing Membrane, Fully Adhered	464.20	92.21
Note: Includes adhesive.		
For Up To 10, Add	129.73	
For >10 To 20, Add	74.08	
For >20 To 40, Add	41.65	
For >75 To 100, Deduct	-20.83	
For >100 To 200, Deduct	-46.26	
For >200, Deduct	-67.09	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low VOC Adhesive, Add	82.91	
For Integral Polyester Fleece-Backing, Add	33.25	
07 54 23 00-0006 SQ 45 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened	239.40	65.09
Note: Includes fasteners.		
For Up To 10, Add	73.92	
For >10 To 20, Add	43.47	
For >20 To 40, Add	24.99	
For >75 To 100, Deduct	-12.49	
For >100 To 200, Deduct	-28.24	
For >200, Deduct	-40.74	
For 15 Year Warranty, Add	3.00	
For Integral Polyester Fleece-Backing, Add	33.25	
For Mechanically Fastened To Concrete Decks, Add	32.55	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	33.78	
07 54 23 00-0007 SQ 50 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened	253.90	66.45
Note: Includes fasteners.		
For Up To 10, Add	77.36	
For >10 To 20, Add	45.33	
For >20 To 40, Add	25.99	
For >75 To 100, Deduct	-12.99	
For >100 To 200, Deduct	-29.31	
For >200, Deduct	-42.30	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Integral Polyester Fleece-Backing, Add	33.25	
For Mechanically Fastened To Concrete Decks, Add	33.23	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	34.46	
07 54 23 00-0008 SQ 60 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened	261.87	67.80
Note: Includes fasteners.		
For Up To 10, Add	79.50	
For >10 To 20, Add	46.53	
For >20 To 40, Add	26.65	
For >75 To 100, Deduct	-13.33	
For >100 To 200, Deduct	-30.04	
For >200, Deduct	-43.37	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Integral Polyester Fleece-Backing, Add	33.25	
For Mechanically Fastened To Concrete Decks, Add	33.90	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	35.13	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 54 Thermoplastic Membrane Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 23 00-0009 SQ 80 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened Note: Includes fasteners.	354.89	70.51
For Up To 10, Add	99.19	
For >10 To 20, Add	56.65	
For >20 To 40, Add	31.85	
For >75 To 100, Deduct	-15.92	
For >100 To 200, Deduct	-35.37	
For >200, Deduct	-51.30	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Integral Polyester Fleece-Backing, Add	33.25	
For Mechanically Fastened To Concrete Decks, Add	35.26	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	36.49	
07 54 23 00-0010 Thermoplastic Polyolefin (TPO) Roofing Membrane Accessories (07 54 23)		
07 54 23 00-0011 SQ Acrylic, Thermoplastic Polyolefin (TPO) Roofing Primer, Price Per Coat.....	82.32	
For Up To 10, Add	20.80	
For >10 To 20, Add	11.49	
For >20 To 40, Add	6.29	
For >75 To 100, Deduct	-3.14	
For >100 To 200, Deduct	-6.83	
For >200, Deduct	-9.97	
07 54 23 00-0012 SQ Acrylic Elastomeric, Surface Or Base Coating For TPO Roofing, Price Per Coat..... Note: 55% solids by volume.	71.62	
For Up To 10, Add	18.66	
For >10 To 20, Add	10.42	
For >20 To 40, Add	5.75	
For >75 To 100, Deduct	-2.88	
For >100 To 200, Deduct	-6.29	
For >200, Deduct	-9.17	
For Tan Or Gray Color, Add	2.50	
07 54 23 00-0013 EA Up To 3" Pipe Diameter, Prefabricated Thermoplastic Polyolefin Pipe Cone/Boot.....	62.27	9.22
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 23 00-0014 EA >3" To 8" Pipe Diameter, Prefabricated Thermoplastic Polyolefin Pipe Cone/Boot.....	67.23	10.31
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 23 00-0015 EA 6" Diameter, Prefabricated TPO Penetration Pocket.....	123.29	11.39
Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 54 23 00-0016 LF 30" Wide, TPO Walkway Protection Pad.....	28.74	6.29
07 54 23 00-0017 SF Thermoplastic Polyolefin Membrane Base Flashing.....	8.02	1.62
07 54 23 00-0018 SF Thermoplastic Polyolefin Curb Flashing.....	6.93	1.62
For Tan Or Gray Color, Add	0.10	
07 54 23 00-0019 SF Thermoplastic Polyolefin Clad Edge Metal Or Base Flashing.....	11.74	1.62
Note: 20 Mil TPO membrane laminated to 24 gauge galvanized steel.		
07 56 Fluid-Applied Roofing (07 50)		
07 56 00 00-0001 Neoprene Hypalon Liquid Roofing, 5 Coats (07 56)		
07 56 00 00-0002 SQ 60 Mil 5 Coat Spray-on Neoprene Hypalon Liquid Roofing.....	1,035.86	144.38
For Each Additional Coat, Add	155.38	
07 56 00 00-0003 Vinyl Spray Liquid Roofing (07 56)		
07 56 00 00-0004 SQ 2 Mil Vinyl Liquid Roofing.....	1,079.92	152.15
07 56 00 00-0005 SQ 4 Mil Vinyl Liquid Roofing.....	1,208.23	169.93
07 56 00 00-0006 Silicone Elastomeric Liquid Roofing (07 56)		
07 56 00 00-0007 SQ 65% Solids, Silicone Elastomeric Spray-on Roofing, 3 Coats, 16 Mil Per Coat.....	433.30	87.19
07 56 00 00-0008 SQ 65% Solids, Silicone Elastomeric Rolled-on Roofing, 3 Coats, 16 Mil Per Coat.....	517.80	87.19
07 56 00 00-0009 SQ 65% Solids, Silicone Elastomeric Brushed-on Roofing, 3 Coats, 16 Mil Per Coat.....	581.34	87.19
07 56 00 00-0010 Rubberized Acrylic Roof Coating, Sprayed On (07 56)		
Note: As manufactured by Tru-Co, Inc.		
07 56 00 00-0011 Rubberized Acrylic Roof Coating, Sprayed On Assemblies (07 56 00 00-0010)		
07 56 00 00-0012 SQ Elastomeric Installation Over Urethane Foam.....	954.31	
07 56 00 00-0013 SQ Elastomeric Installation Over Decks.....	979.29	
07 56 00 00-0014 SQ Elastomeric Installation Over Exterior, Waterproofing.....	388.47	
07 56 00 00-0015 SQ Installation Over Existing Tar (Asphalt) And Gravel Roof.....	1,260.71	
07 56 00 00-0016 SQ Installation Over New Construction, Waterproofing.....	691.97	
07 56 00 00-0017 SQ Installation Over Mobile Home.....	459.28	
07 56 00 00-0018 SQ Installation Over Corrugated Metal Roofs.....	535.87	
07 56 00 00-0019 SQ Installation Over Granulate Mineral Surface, Cap Sheet (Semi-Smooth) Surface.....	1,030.90	
07 56 00 00-0020 SQ 4" Acrylic Gel With Fabric (Apply At Edges).....	3.70	
07 56 00 00-0021 SQ 6" Acrylic Gel With Fabric (Apply At Edges).....	5.26	
07 56 00 00-0022 Polyurethane Roof Coating, Sprayed On Assemblies (07 56)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				Note: Includes pressure wash, primer, base coat, polyester reinforcement, top coat and finish coat.		
	07 56 00 00-0023	SF		Up To 50 SF White (High-Albedo) Polyurethane Coating.....	11.09	
	07 56 00 00-0024	SF		>50 To 100 SF White (High-Albedo) Polyurethane Coating	10.63	
	07 56 00 00-0025	SF		>100 To 500 SF White (High-Albedo) Polyurethane Coating	10.17	
	07 56 00 00-0026	SEA		>500 To 1,000 SF White (High-Albedo) Polyurethane Coating	9.58	
07 56 00 00-0027				Elastomeric Asphalt/Urethane Liquid Roofing Membrane (07 56)		
	07 56 00 00-0028	SQ		90 Mil, Elastomeric Asphalt/Urethane Liquid Roofing Membrane	1,827.79	87.19
				Note: Includes applying a 30 mil base coat, rolling in a stitchbonded polyester reinforcing scrim and applying a 60 mil second coat.		
07 56 00 00-0029				Urethane Liquid Roofing Membrane (07 56)		
				Note: Garland White Knight Energy Star single component urethane restoration system. 10 year warranty. Used for restoration of membrane, built up, metal and modified roofing systems.		
	07 56 00 00-0030	SQ		Ulti-Mat™ 38" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems.....	94.21	
	07 56 00 00-0031	LF		Ulti-Mat™ 6" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems.....	5.15	
	07 56 00 00-0032	SQ		White-Knight® Premium Multi-Purpose Urethane Restoration Reflective Coating For Metal, Membrane, BUR, Single-Ply (2 GAL/SQ).....	359.47	
	07 56 00 00-0033	SQ		White-Knight® Metal Primer One Component Metal Primer For Placement Under The White-Knight System	92.70	
	07 56 00 00-0034	SQ		White-Knight® Plus High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply	886.86	
	07 56 00 00-0035	SQ		White-Knight® Plus Base Coat High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply	1,340.91	
	07 56 00 00-0036	SQ		White-Knight® Plus WC High Strength, Multi-Purpose, VOC Compliant, Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply	917.51	
	07 56 00 00-0037	SQ		White-Star Premium, White Polyurea Restoration Adhesive For Mineral And Smooth Modified And BUR (2 GAL/SQ).....	236.68	
07 57				Coated Foamed Roofing (07 50)		
07 57 13				Sprayed Polyurethane Foam Roofing (07 57)		
				Note: Includes power washing. Excludes ballast removal and priming metal surfaces. Excludes walkways.		
07 57 13 00-0001				Sprayed Polyurethane Foam Roofing Systems (07 57 13)		
07 57 13 00-0002				Sprayed Polyurethane Foam Roofing Systems With Acrylic Elastomeric Coating (07 57 13 00-0001)		
07 57 13 00-0003				Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating (07 57 13 00-0002)		
				Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 5 year warranty.		
	07 57 13 00-0004	SQ		1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	335.51	52.84
	07 57 13 00-0005	SQ		1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	400.63	56.61
	07 57 13 00-0006	SQ		2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	465.77	60.39
	07 57 13 00-0007	SQ		2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	537.25	64.16
	07 57 13 00-0008	SQ		3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	608.76	67.94
	07 57 13 00-0009	SQ		3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	667.52	71.71
	07 57 13 00-0010	SQ		4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	726.26	75.48
	07 57 13 00-0011	SQ		4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	791.40	79.26
	07 57 13 00-0012	SQ		5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	856.52	83.03
	07 57 13 00-0013	SQ		5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	921.65	86.81
	07 57 13 00-0014	SQ		6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	986.78	90.58
07 57 13 00-0015				Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating (07 57 13 00-0002)		
				Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 10 year warranty.		
	07 57 13 00-0016	SQ		1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	345.42	52.84
	07 57 13 00-0017	SQ		1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	410.54	56.61
	07 57 13 00-0018	SQ		2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	475.68	60.39
	07 57 13 00-0019	SQ		2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	540.79	64.16
	07 57 13 00-0020	SQ		3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	605.93	67.94

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 57 Coated Foamed Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 57 13 00-0021 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	671.06	71.71
07 57 13 00-0022 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	736.17	75.48
07 57 13 00-0023 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	801.31	79.26
07 57 13 00-0024 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	866.43	83.03
07 57 13 00-0025 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	931.56	86.81
07 57 13 00-0026 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	996.69	90.58
07 57 13 00-0027 Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating <small>(07 57 13 00-0002)</small>		
Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 15 year warranty.		
07 57 13 00-0028 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	369.49	52.84
07 57 13 00-0029 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	432.49	56.61
07 57 13 00-0030 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	495.50	60.39
07 57 13 00-0031 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	560.61	64.16
07 57 13 00-0032 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	625.75	67.94
07 57 13 00-0033 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	717.36	71.71
07 57 13 00-0034 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	808.95	75.48
07 57 13 00-0035 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	879.47	79.26
07 57 13 00-0036 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	949.97	83.03
07 57 13 00-0037 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	1,020.48	86.81
07 57 13 00-0038 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	1,090.99	90.58
07 57 13 00-0039 Sprayed Polyurethane Foam Roofing Systems With Silicone Elastomeric Coating <small>(07 57 13 00-0001)</small>		
07 57 13 00-0040 Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating <small>(07 57 13 00-0039)</small>		
Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 5 year warranty.		
07 57 13 00-0041 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	376.57	52.84
07 57 13 00-0042 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	447.07	56.61
07 57 13 00-0043 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	517.59	60.39
07 57 13 00-0044 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	588.08	64.16
07 57 13 00-0045 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	658.60	67.94
07 57 13 00-0046 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	729.11	71.71
07 57 13 00-0047 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	799.61	75.48
07 57 13 00-0048 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	870.12	79.26
07 57 13 00-0049 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	940.63	83.03
07 57 13 00-0050 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	1,011.13	86.81
07 57 13 00-0051 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	1,081.64	90.58
07 57 13 00-0052 Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating <small>(07 57 13 00-0039)</small>		
Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 10 year warranty.		
07 57 13 00-0053 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	390.59	52.84
07 57 13 00-0054 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	461.09	56.61
07 57 13 00-0055 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	531.61	60.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 57 13 00-0056 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	602.10	64.16
07 57 13 00-0057 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	672.61	67.94
07 57 13 00-0058 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	743.13	71.71
07 57 13 00-0059 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	813.62	75.48
07 57 13 00-0060 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	884.14	79.26
07 57 13 00-0061 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	954.64	83.03
07 57 13 00-0062 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	1,025.15	86.81
07 57 13 00-0063 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	1,095.66	90.58

07 57 13 00-0064 Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating (07 57 13 00-0039)

Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 15 year warranty.

07 57 13 00-0065 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	401.49	52.84
07 57 13 00-0066 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	471.99	56.61
07 57 13 00-0067 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	542.51	60.39
07 57 13 00-0068 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	613.00	64.16
07 57 13 00-0069 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	683.52	67.94
07 57 13 00-0070 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	754.03	71.71
07 57 13 00-0071 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	824.53	75.48
07 57 13 00-0072 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	895.04	79.26
07 57 13 00-0073 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	965.55	83.03
07 57 13 00-0074 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	1,036.05	86.81
07 57 13 00-0075 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	1,106.56	90.58

07 58 Roll Roofing (07 50)

07 58 00 00-0001 Prepared Roll Roofing <small>(07 58)</small> Note: Fastened with roofing nails and roofing cement. Includes fasteners and adhesive. Excludes warranty. See CSI section 07 51 13 00-0033 for underlayment.		
07 58 00 00-0002 SQ Granule Surfaced, 90 LB, Asphalt Saturated Organic Felt Roll Roofing.....	256.06	33.97

07 59 Membrane Roofing Termination Bar (07 50)

07 59 00 00-0001 Membrane Roofing Termination Bar <small>(07 59)</small>		
07 59 00 00-0002 LF Membrane Roofing Termination Bar..... Note: Includes fasteners and caulking.	4.90	1.56

07 60 Flashing and Sheet Metal (07)

07 61 Sheet Metal Roofing (07 60)

07 61 13 Standing Seam Sheet Metal Roofing (07 61)

07 61 13 00-0001 Standing Seam Concealed Fastener Roofing <small>(07 61 13)</small>		
07 61 13 00-0002 Copper Standing Seam Concealed Fastener Roofing <small>(07 61 13 00-0001)</small>		
07 61 13 00-0003 SF Architectural 16 Ounce Copper Standing Seam Concealed Fastener Roofing.....	33.90	3.83
For Steep Roof, Over 6 To 12, Add	2.30	
For Panels <16" Wide, Add	3.11	
For 140 MPH Wind Load, Add	1.29	
For Up To 1,500, Add	8.48	
For >1,500 To 5,000, Add	5.09	
For >5,000 To 10,000, Add	0.85	

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 61 Sheet Metal Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 13 00-0004 SF Architectural 18 Ounce Copper Standing Seam Concealed Fastener Roofing.....	37.10	4.15
For Steep Roof, Over 6 To 12, Add	2.49	
For Panels <16" Wide, Add	3.39	
For 140 MPH Wind Load, Add	1.41	
For Up To 1,500, Add	9.28	
For >1,500 To 5,000, Add	5.57	
For >5,000 To 10,000, Add	0.93	
07 61 13 00-0005 SF Architectural 20 Ounce Copper Standing Seam Concealed Fastener Roofing.....	43.61	4.52
For Steep Roof, Over 6 To 12, Add	2.71	
For Panels <16" Wide, Add	3.85	
For 140 MPH Wind Load, Add	1.60	
For Up To 1,500, Add	10.90	
For >1,500 To 5,000, Add	6.54	
For >5,000 To 10,000, Add	1.09	
07 61 13 00-0006 Zinc/Copper Standing Seam Concealed Fastener Roofing (07 61 13 00-0001)		
07 61 13 00-0007 SF 0.020" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	39.53	4.15
For Steep Roof, Over 6 To 12, Add	2.49	
For Panels <16" Wide, Add	3.51	
For 140 MPH Wind Load, Add	1.45	
For Up To 1,500, Add	9.88	
For >1,500 To 5,000, Add	5.93	
For >5,000 To 10,000, Add	0.99	
For Tin/Copper, Deduct	-0.62	
07 61 13 00-0008 SF 0.027" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	47.69	4.32
For Steep Roof, Over 6 To 12, Add	2.59	
For Panels <16" Wide, Add	3.98	
For 140 MPH Wind Load, Add	1.65	
For Up To 1,500, Add	11.92	
For >1,500 To 5,000, Add	7.15	
For >5,000 To 10,000, Add	1.19	
For Tin/Copper, Deduct	-0.78	
07 61 13 00-0009 SF 0.032" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	54.11	4.52
For Steep Roof, Over 6 To 12, Add	2.71	
For Panels <16" Wide, Add	4.38	
For 140 MPH Wind Load, Add	1.81	
For Up To 1,500, Add	13.53	
For >1,500 To 5,000, Add	8.12	
For >5,000 To 10,000, Add	1.35	
For Tin/Copper, Deduct	-0.90	
07 61 13 00-0010 SF 0.040" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	67.60	4.74
For Steep Roof, Over 6 To 12, Add	2.84	
For Panels <16" Wide, Add	5.13	
For 140 MPH Wind Load, Add	2.11	
For Up To 1,500, Add	16.90	
For >1,500 To 5,000, Add	10.14	
For >5,000 To 10,000, Add	1.69	
For Tin/Copper, Deduct	-1.16	
07 61 13 00-0011 Accessories For Copper Standing Seam Concealed Fastener Roofing (07 61 13 00-0001)		
07 61 13 00-0012 LF Ridge Flashing For Copper Standing Seam Concealed Fastener Roofing.....	140.67	7.91
For Steep Roof, Over 6 To 12, Add	5.93	
For 140 MPH Wind Load, Add	4.40	
07 61 13 00-0013 LF Eave Flashing For Copper Standing Seam Concealed Fastener Roofing.....	82.12	7.91
For Steep Roof, Over 6 To 12, Add	5.93	
For 140 MPH Wind Load, Add	3.22	
07 61 13 00-0014 LF Valley Flashing For Copper Standing Seam Concealed Fastener Roofing.....	196.02	7.91
For Steep Roof, Over 6 To 12, Add	5.93	
For 140 MPH Wind Load, Add	5.50	
07 61 13 00-0015 LF Hip Flashing For Copper Standing Seam Concealed Fastener Roofing.....	145.04	7.91
For Steep Roof, Over 6 To 12, Add	5.93	
For 140 MPH Wind Load, Add	4.48	
07 61 16 Batten Seam Sheet Metal Roofing (07 61)		
07 61 16 00-0001 Copper Batten Seam Concealed Fastener Roofing (07 61 16)		
07 61 16 00-0002 Copper Batten Seam Concealed Fastener Roofing (07 61 16 00-0001)		
07 61 16 00-0003 SF 16 Ounce Copper Batten Seam Concealed Fastener Roofing.....	41.69	4.52
For Steep Roof, Over 6 To 12, Add	2.71	
For Panels <16" Wide, Add	3.76	
For 140 MPH Wind Load, Add	1.56	
For Up To 1,500, Add	10.42	
For >1,500 To 5,000, Add	6.25	
For >5,000 To 10,000, Add	1.04	
07 61 16 00-0004 SF 18 Ounce Copper Batten Seam Concealed Fastener Roofing.....	45.99	4.75
For Steep Roof, Over 6 To 12, Add	2.85	
For Panels <16" Wide, Add	4.06	
For 140 MPH Wind Load, Add	1.68	
For Up To 1,500, Add	11.50	
For >1,500 To 5,000, Add	6.90	
For >5,000 To 10,000, Add	1.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 16 00-0005 SF 20 Ounce Copper Batten Seam Concealed Fastener Roofing	53.49	4.98
<i>For Steep Roof, Over 6 To 12, Add</i>	2.99	
<i>For Panels <16" Wide, Add</i>	4.52	
<i>For 140 MPH Wind Load, Add</i>	1.87	
<i>For Up To 1,500, Add</i>	13.37	
<i>For >1,500 To 5,000, Add</i>	8.02	
<i>For >5,000 To 10,000, Add</i>	1.34	
07 61 16 00-0006 Zinc/Copper Batten Seam Concealed Fastener Roofing (07 61 16 00-0001)		
07 61 16 00-0007 SF 0.020" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	42.22	4.15
<i>For Steep Roof, Over 6 To 12, Add</i>	2.49	
<i>For Panels <16" Wide, Add</i>	3.64	
<i>For 140 MPH Wind Load, Add</i>	1.51	
<i>For Up To 1,500, Add</i>	10.56	
<i>For >1,500 To 5,000, Add</i>	6.33	
<i>For >5,000 To 10,000, Add</i>	1.06	
<i>For Tin/Copper, Deduct</i>	-0.68	
07 61 16 00-0008 SF 0.027" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	51.55	4.32
<i>For Steep Roof, Over 6 To 12, Add</i>	2.60	
<i>For Panels <16" Wide, Add</i>	4.18	
<i>For 140 MPH Wind Load, Add</i>	1.72	
<i>For Up To 1,500, Add</i>	12.89	
<i>For >1,500 To 5,000, Add</i>	7.73	
<i>For >5,000 To 10,000, Add</i>	1.29	
<i>For Tin/Copper, Deduct</i>	-0.86	
07 61 16 00-0009 SF 0.032" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	57.70	4.52
<i>For Steep Roof, Over 6 To 12, Add</i>	2.71	
<i>For Panels <16" Wide, Add</i>	4.56	
<i>For 140 MPH Wind Load, Add</i>	1.88	
<i>For Up To 1,500, Add</i>	14.43	
<i>For >1,500 To 5,000, Add</i>	8.66	
<i>For >5,000 To 10,000, Add</i>	1.44	
<i>For Tin/Copper, Deduct</i>	-0.97	
07 61 16 00-0010 SF 0.040" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	72.21	4.74
<i>For Steep Roof, Over 6 To 12, Add</i>	2.84	
<i>For Panels <16" Wide, Add</i>	5.36	
<i>For 140 MPH Wind Load, Add</i>	2.20	
<i>For Up To 1,500, Add</i>	18.05	
<i>For >1,500 To 5,000, Add</i>	10.83	
<i>For >5,000 To 10,000, Add</i>	1.81	
<i>For Tin/Copper, Deduct</i>	-1.25	
07 61 19 Flat Seam Sheet Metal Roofing (07 61)		
07 61 19 00-0001 Copper Flat Seam Concealed Fastener Roofing (07 61 19)		
07 61 19 00-0002 Copper Flat Seam Concealed Fastener Roofing (07 61 19 00-0001)		
07 61 19 00-0003 SF 16 Ounce Copper Flat Seam Concealed Fastener Roofing.....	32.36	4.15
<i>For Steep Roof, Over 6 To 12, Add</i>	2.49	
<i>For Panels <16" Wide, Add</i>	3.15	
<i>For 140 MPH Wind Load, Add</i>	1.31	
<i>For Up To 1,500, Add</i>	8.09	
<i>For >1,500 To 5,000, Add</i>	4.85	
<i>For >5,000 To 10,000, Add</i>	0.81	
07 61 19 00-0004 SF 18 Ounce Copper Flat Seam Concealed Fastener Roofing.....	35.54	4.32
<i>For Steep Roof, Over 6 To 12, Add</i>	2.60	
<i>For Panels <16" Wide, Add</i>	3.38	
<i>For 140 MPH Wind Load, Add</i>	1.40	
<i>For Up To 1,500, Add</i>	8.89	
<i>For >1,500 To 5,000, Add</i>	5.33	
<i>For >5,000 To 10,000, Add</i>	0.89	
07 61 19 00-0005 SF 20 Ounce Copper Flat Seam Concealed Fastener Roofing.....	41.05	4.52
<i>For Steep Roof, Over 6 To 12, Add</i>	2.71	
<i>For Panels <16" Wide, Add</i>	3.72	
<i>For 140 MPH Wind Load, Add</i>	1.54	
<i>For Up To 1,500, Add</i>	10.26	
<i>For >1,500 To 5,000, Add</i>	6.16	
<i>For >5,000 To 10,000, Add</i>	1.03	
07 61 19 00-0006 Zinc/Copper Flat Seam Concealed Fastener Roofing (07 61 19 00-0001)		
07 61 19 00-0007 SF 0.020" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing.....	37.10	4.15
<i>For Steep Roof, Over 6 To 12, Add</i>	2.49	
<i>For Panels <16" Wide, Add</i>	3.39	
<i>For 140 MPH Wind Load, Add</i>	1.41	
<i>For Up To 1,500, Add</i>	9.28	
<i>For >1,500 To 5,000, Add</i>	5.57	
<i>For >5,000 To 10,000, Add</i>	0.93	
<i>For Tin/Copper, Deduct</i>	-0.58	

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 61 Sheet Metal Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 19 00-0008 SF 0.027" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing.....	45.14	4.32
For Steep Roof, Over 6 To 12, Add	2.60	
For Panels <16" Wide, Add	3.86	
For 140 MPH Wind Load, Add	1.59	
For Up To 1,500, Add	11.29	
For >1,500 To 5,000, Add	6.77	
For >5,000 To 10,000, Add	1.13	
For Tin/Copper, Deduct	-0.73	
07 61 19 00-0009 SF 0.032" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing.....	50.65	4.52
For Steep Roof, Over 6 To 12, Add	2.71	
For Panels <16" Wide, Add	4.20	
For 140 MPH Wind Load, Add	1.74	
For Up To 1,500, Add	12.66	
For >1,500 To 5,000, Add	7.60	
For >5,000 To 10,000, Add	1.27	
For Tin/Copper, Deduct	-0.83	
07 61 19 00-0010 SF 0.040" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing.....	63.25	4.74
For Steep Roof, Over 6 To 12, Add	2.84	
For Panels <16" Wide, Add	4.91	
For 140 MPH Wind Load, Add	2.02	
For Up To 1,500, Add	15.81	
For >1,500 To 5,000, Add	9.49	
For >5,000 To 10,000, Add	1.58	
For Tin/Copper, Deduct	-1.08	

07 62 Sheet Metal Flashing and Trim (07 60)**07 62 13 Fabricated Copings** (07 62)**07 62 13 00-0001 Lead Flashing And Trim** (07 62 13)

07 62 13 00-0002 SF 2.5 LB/SF Sheet Lead Flashing.....	24.63	6.58
For Up To 100, Add	6.16	
07 62 13 00-0003 SF 4 LB/SF Sheet Lead Flashing.....	31.66	6.58
For Up To 100, Add	7.92	

07 62 13 00-0004 Copper Flashing And Trim (07 62 13)**07 62 13 00-0005 Copper Flashing And Trim** (07 62 13 00-0004)

07 62 13 00-0006 SF 16 Ounce, 0.021" Thick, Copper Flashing And Trim.....	30.29	6.42
For Up To 100, Add	7.57	
For >500 To 2,000, Deduct	-4.19	
For >2,000, Deduct	-5.07	
For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add	2.54	
For Wrap Around Window Panning, Add	12.71	
07 62 13 00-0007 SF 20 Ounce, 0.027" Thick, Copper Flashing And Trim.....	31.30	6.58
For Up To 100, Add	7.83	
For >500 To 2,000, Deduct	-4.33	
For >2,000, Deduct	-5.24	
For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add	2.66	
For Wrap Around Window Panning, Add	13.28	
07 62 13 00-0008 SF 24 Ounce, 0.032" Thick, Copper Flashing And Trim.....	35.54	7.02
For Up To 100, Add	8.89	
For >500 To 2,000, Deduct	-4.90	
For >2,000, Deduct	-5.98	
For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add	2.78	
For Wrap Around Window Panning, Add	13.92	
07 62 13 00-0009 SF 32 Ounce, 0.043" Thick, Copper Flashing And Trim.....	43.44	7.31
For Up To 100, Add	10.86	
For >500 To 2,000, Deduct	-5.94	
For >2,000, Deduct	-7.38	
For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add	2.92	
For Wrap Around Window Panning, Add	14.61	

07 62 13 00-0010 Stainless Steel Flashing And Trim (07 62 13)**07 62 13 00-0011 Stainless Steel Flashing And Trim** (07 62 13 00-0010)

07 62 13 00-0012 SF 32 Gauge, 0.010" Thick, Stainless Steel Flashing And Trim.....	12.51	3.51
For Up To 100, Add	3.13	
For Wrap Around Window Panning, Add	9.02	
For Mechanically Keyed Flashing, Add	1.40	
07 62 13 00-0013 SF 30 Gauge, 0.0125" Thick, Stainless Steel Flashing And Trim.....	13.52	3.94
For Up To 100, Add	3.38	
For Wrap Around Window Panning, Add	9.16	
For Mechanically Keyed Flashing, Add	1.74	
07 62 13 00-0014 SF 28 Gauge, 0.0156" Thick, Stainless Steel Flashing And Trim.....	14.54	4.38
For Up To 100, Add	3.64	
For Wrap Around Window Panning, Add	9.31	
For Mechanically Keyed Flashing, Add	2.09	
07 62 13 00-0015 SF 26 Gauge, 0.0187" Thick, Stainless Steel Flashing And Trim.....	16.15	4.83
For Up To 100, Add	4.04	
For Wrap Around Window Panning, Add	9.61	
For Mechanically Keyed Flashing, Add	2.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 13 00-0016 SF 24 Gauge, 0.025" Thick, Stainless Steel Flashing And Trim..... <i>For Up To 100, Add</i> <i>For Wrap Around Window Panning, Add</i> <i>For Mechanically Keyed Flashing, Add</i>	18.86 4.72 10.15 3.48	5.12
07 62 13 00-0017 SF 22 Gauge, 0.031" Thick, Stainless Steel Flashing And Trim..... <i>For Up To 100, Add</i> <i>For Wrap Around Window Panning, Add</i> <i>For Mechanically Keyed Flashing, Add</i>	20.58 5.15 10.74 3.94	5.37
07 62 13 00-0018 SF 20 Gauge, 0.0375" Thick, Stainless Steel Flashing And Trim..... <i>For Up To 100, Add</i> <i>For Wrap Around Window Panning, Add</i> <i>For Mechanically Keyed Flashing, Add</i>	22.03 5.51 11.37 4.26	5.70
07 62 13 00-0019 Aluminum Flashing And Trim <small>(07 62 13)</small>		
07 62 13 00-0020 Aluminum Flashing And Trim <small>(07 62 13 00-0019)</small>		
07 62 13 00-0021 SF 0.013" Thick, Mill Finish, Aluminum Flashing And Trim <i>For Up To 100, Add</i> <i>For Baked Aluminum Colors, Add</i> <i>For Wrap Around Window Panning, Add</i>	13.04 3.26 0.30 10.07	4.52
07 62 13 00-0022 SF 0.016" Thick, Mill Finish, Aluminum Flashing And Trim <i>For Up To 100, Add</i> <i>For Baked Aluminum Colors, Add</i> <i>For Wrap Around Window Panning, Add</i>	13.69 3.42 0.36 10.07	4.52
07 62 13 00-0023 SF 0.019" Thick, Mill Finish, Aluminum Flashing And Trim <i>For Up To 100, Add</i> <i>For Baked Aluminum Colors, Add</i> <i>For Wrap Around Window Panning, Add</i>	14.21 3.55 0.41 10.07	4.52
07 62 13 00-0024 SF 0.024" Thick, Mill Finish, Aluminum Flashing And Trim <i>For Up To 100, Add</i> <i>For Baked Aluminum Colors, Add</i> <i>For Wrap Around Window Panning, Add</i>	14.95 3.74 0.49 10.07	4.52
07 62 13 00-0025 SF 0.032" Thick, Mill Finish, Aluminum Flashing And Trim <i>For Up To 100, Add</i> <i>For Baked Aluminum Colors, Add</i> <i>For Wrap Around Window Panning, Add</i>	15.99 4.00 0.59 10.07	4.52
07 62 13 00-0026 SF 0.040" Thick, Mill Finish, Aluminum Flashing And Trim <i>For Up To 100, Add</i> <i>For Baked Aluminum Colors, Add</i> <i>For Wrap Around Window Panning, Add</i>	16.63 4.16 0.66 10.07	4.52
07 62 13 00-0027 SF 0.050" Thick, Mill Finish, Aluminum Flashing And Trim <i>For Up To 100, Add</i> <i>For Baked Aluminum Colors, Add</i> <i>For Wrap Around Window Panning, Add</i>	17.15 4.29 0.71 10.07	4.52
07 62 13 00-0028 Steel Flashing And Trim <small>(07 62 13)</small>		
07 62 13 00-0029 Galvanized Steel Flashing And Trim <small>(07 62 13 00-0028)</small>		
07 62 13 00-0030 SF 28 Gauge, 0.019" Thick, Galvanized Steel Flashing..... <i>For Up To 100, Add</i> <i>For Wrap Around Window Panning, Add</i>	13.67 3.42 9.31	4.38
07 62 13 00-0031 SF 26 Gauge, 0.022" Thick, Galvanized Steel Flashing..... <i>For Up To 100, Add</i> <i>For Wrap Around Window Panning, Add</i>	14.20 3.55 9.61	4.83
07 62 13 00-0032 SF 24 Gauge, 0.028" Thick, Galvanized Steel Flashing..... <i>For Up To 100, Add</i> <i>For Wrap Around Window Panning, Add</i>	15.11 3.78 10.15	5.12
07 62 13 00-0033 SF 22 Gauge, 0.034" Thick, Galvanized Steel Flashing..... <i>For Up To 100, Add</i> <i>For Wrap Around Window Panning, Add</i>	16.06 4.02 10.74	5.37
07 62 13 00-0034 SF 20 Gauge, 0.04" Thick, Galvanized Steel Flashing..... <i>For Up To 100, Add</i> <i>For Wrap Around Window Panning, Add</i>	17.32 4.33 11.37	5.70
07 62 19 Fabricated Gravel Stops and Fasciae <small>(07 62)</small>		
07 62 19 00-0001 Drip Edge <small>(07 62 19)</small>		
07 62 19 00-0002 Aluminum Drip Edge <small>(07 62 19 00-0001)</small> Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0003 KYNAR 500® Finish, Aluminum Drip Edge <small>(07 62 19 00-0002)</small>		
07 62 19 00-0004 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge <small>(07 62 19 00-0003)</small>		
07 62 19 00-0005 LF Up To 5" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	12.26	1.70
07 62 19 00-0006 LF >5" To 7" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	15.30	1.81
07 62 19 00-0007 LF >7" To 9" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	17.28	2.04
07 62 19 00-0008 LF >9" To 12" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	20.80	2.15
07 62 19 00-0009 LF >12" To 15" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	26.58	2.27
07 62 19 00-0010 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge <small>(07 62 19 00-0003)</small>		

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 62 Sheet Metal Flashing and Trim**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0011	LF	Up To 5" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	13.12	1.70
07 62 19 00-0012	LF	>5" To 7" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	16.25	1.81
07 62 19 00-0013	LF	>7" To 9" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	18.71	2.04
07 62 19 00-0014	LF	>9" To 12" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	22.52	2.15
07 62 19 00-0015	LF	>12" To 15" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	28.21	2.27
07 62 19 00-0016		0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0017	LF	Up To 5" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	13.98	1.70
07 62 19 00-0018	LF	>5" To 7" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	17.40	1.81
07 62 19 00-0019	LF	>7" To 9" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	20.10	2.04
07 62 19 00-0020	LF	>9" To 12" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	24.24	2.15
07 62 19 00-0021	LF	>12" To 15" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	30.50	2.27
07 62 19 00-0022		0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0023	LF	Up To 5" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	15.70	1.70
07 62 19 00-0024	LF	>5" To 7" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	19.69	1.81
07 62 19 00-0025	LF	>7" To 9" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	22.82	2.04
07 62 19 00-0026	LF	>9" To 12" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	27.68	2.15
07 62 19 00-0027	LF	>12" To 15" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	35.09	2.27
07 62 19 00-0028		0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0029	LF	Up To 5" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	16.27	1.70
07 62 19 00-0030	LF	>5" To 7" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	20.55	1.81
07 62 19 00-0031	LF	>7" To 9" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	23.73	2.04
07 62 19 00-0032	LF	>9" To 12" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	28.82	2.15
07 62 19 00-0033	LF	>12" To 15" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	36.62	2.27
07 62 19 00-0034		0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0035	LF	Up To 5" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	18.28	1.70
07 62 19 00-0036	LF	>5" To 7" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	23.13	1.81
07 62 19 00-0037	LF	>7" To 9" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	26.88	2.04
07 62 19 00-0038	LF	>9" To 12" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	32.84	2.15
07 62 19 00-0039	LF	>12" To 15" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	41.97	2.27
07 62 19 00-0040		0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0041	LF	Up To 5" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	21.15	1.70
07 62 19 00-0042	LF	>5" To 7" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	26.96	1.81
07 62 19 00-0043	LF	>7" To 9" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	31.42	2.04
07 62 19 00-0044	LF	>9" To 12" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	38.57	2.15
07 62 19 00-0045	LF	>12" To 15" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	49.61	2.27
07 62 19 00-0046		0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0047	LF	Up To 5" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	24.59	1.70
07 62 19 00-0048	LF	>5" To 7" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	31.54	1.81
07 62 19 00-0049	LF	>7" To 9" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	36.87	2.04
07 62 19 00-0050	LF	>9" To 12" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	45.45	2.15
07 62 19 00-0051	LF	>12" To 15" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	58.79	2.27
07 62 19 00-0052		Mill Finish, Aluminum Drip Edge (07 62 19 00-0002)		
07 62 19 00-0053		0.016" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0054	LF	Up To 5" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	10.03	1.70
07 62 19 00-0055	LF	>5" To 7" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	12.27	1.81
07 62 19 00-0056	LF	>7" To 9" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	13.78	2.04
07 62 19 00-0057	LF	>9" To 12" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	16.35	2.15
07 62 19 00-0058	LF	>12" To 15" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	20.44	2.27
07 62 19 00-0059		0.019" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0060	LF	Up To 5" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	10.63	1.70
07 62 19 00-0061	LF	>5" To 7" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	12.93	1.81
07 62 19 00-0062	LF	>7" To 9" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	14.77	2.04
07 62 19 00-0063	LF	>9" To 12" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	17.53	2.15
07 62 19 00-0064	LF	>12" To 15" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	21.56	2.27
07 62 19 00-0065		0.025" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0066	LF	Up To 5" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	11.22	1.70
07 62 19 00-0067	LF	>5" To 7" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	13.72	1.81
07 62 19 00-0068	LF	>7" To 9" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	15.72	2.04
07 62 19 00-0069	LF	>9" To 12" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	18.72	2.15
07 62 19 00-0070	LF	>12" To 15" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	23.15	2.27



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				07 62 19 00-0071 0.032" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
			LF	Up To 5" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	12.41	1.70
			LF	>5" To 7" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	15.30	1.81
			LF	>7" To 9" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	17.60	2.04
			LF	>9" To 12" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	21.09	2.15
			LF	>12" To 15" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	26.31	2.27
				07 62 19 00-0077 0.040" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
			LF	Up To 5" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	12.80	1.70
			LF	>5" To 7" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	15.90	1.81
			LF	>7" To 9" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	18.23	2.04
			LF	>9" To 12" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	21.88	2.15
			LF	>12" To 15" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	27.36	2.27
				07 62 19 00-0083 0.050" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
			LF	Up To 5" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	14.19	1.70
			LF	>5" To 7" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	17.68	1.81
			LF	>7" To 9" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	20.40	2.04
			LF	>9" To 12" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	24.65	2.15
			LF	>12" To 15" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	31.05	2.27
				07 62 19 00-0089 0.063" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
			LF	Up To 5" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	16.16	1.70
			LF	>5" To 7" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	20.31	1.81
			LF	>7" To 9" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	23.53	2.04
			LF	>9" To 12" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	28.61	2.15
			LF	>12" To 15" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	36.33	2.27
				07 62 19 00-0095 0.080" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
			LF	Up To 5" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	18.54	1.70
			LF	>5" To 7" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	23.48	1.81
			LF	>7" To 9" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	27.29	2.04
			LF	>9" To 12" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	33.35	2.15
			LF	>12" To 15" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	42.65	2.27
				07 62 19 00-0101 Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0002)		
				07 62 19 00-0102 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
			LF	Up To 5" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	12.69	1.70
			LF	>5" To 7" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	15.88	1.81
			LF	>7" To 9" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	17.95	2.04
			LF	>9" To 12" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	21.66	2.15
			LF	>12" To 15" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	27.77	2.27
				07 62 19 00-0108 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
			LF	Up To 5" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	13.60	1.70
			LF	>5" To 7" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	16.90	1.81
			LF	>7" To 9" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	19.47	2.04
			LF	>9" To 12" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	23.48	2.15
			LF	>12" To 15" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	29.49	2.27
				07 62 19 00-0114 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
			LF	Up To 5" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	14.51	1.70
			LF	>5" To 7" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	18.11	1.81
			LF	>7" To 9" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	20.94	2.04
			LF	>9" To 12" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	25.30	2.15
			LF	>12" To 15" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	31.92	2.27
				07 62 19 00-0120 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
			LF	Up To 5" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	16.33	1.70
			LF	>5" To 7" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	20.54	1.81
			LF	>7" To 9" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	23.83	2.04
			LF	>9" To 12" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	28.95	2.15
			LF	>12" To 15" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	36.79	2.27
				07 62 19 00-0126 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
			LF	Up To 5" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	16.94	1.70
			LF	>5" To 7" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	21.45	1.81

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 62 Sheet Metal Flashing and Trim**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0129 LF >7" To 9" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	24.79	2.04
07 62 19 00-0130 LF >9" To 12" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	30.16	2.15
07 62 19 00-0131 LF >12" To 15" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	38.41	2.27
07 62 19 00-0132 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0133 LF Up To 5" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	19.07	1.70
07 62 19 00-0134 LF >5" To 7" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	24.19	1.81
07 62 19 00-0135 LF >7" To 9" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	28.13	2.04
07 62 19 00-0136 LF >9" To 12" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	34.42	2.15
07 62 19 00-0137 LF >12" To 15" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	44.08	2.27
07 62 19 00-0138 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0139 LF Up To 5" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	22.11	1.70
07 62 19 00-0140 LF >5" To 7" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	28.24	1.81
07 62 19 00-0141 LF >7" To 9" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	32.95	2.04
07 62 19 00-0142 LF >9" To 12" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	40.50	2.15
07 62 19 00-0143 LF >12" To 15" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	52.18	2.27
07 62 19 00-0144 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0145 LF Up To 5" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	25.76	1.70
07 62 19 00-0146 LF >5" To 7" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	33.10	1.81
07 62 19 00-0147 LF >7" To 9" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	38.72	2.04
07 62 19 00-0148 LF >9" To 12" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	47.79	2.15
07 62 19 00-0149 LF >12" To 15" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	61.91	2.27
07 62 19 00-0150 Galvanized Steel Drip Edge (07 62 19 00-0001) Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0151 Galvanized Steel Drip Edge (07 62 19 00-0150)		
07 62 19 00-0152 26 Gauge, Galvanized Steel Drip Edge (07 62 19 00-0151)		
07 62 19 00-0153 LF Up To 5" Girth, 26 Gauge, Galvanized Steel Drip Edge	11.81	1.70
07 62 19 00-0154 LF >5" To 7" Girth, 26 Gauge, Galvanized Steel Drip Edge	14.56	1.81
07 62 19 00-0155 LF >7" To 9" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	16.65	2.04
07 62 19 00-0156 LF >9" To 12" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	19.89	2.15
07 62 19 00-0157 LF >12" To 15" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	24.71	2.27
07 62 19 00-0158 24 Gauge, Galvanized Steel Drip Edge (07 62 19 00-0151)		
07 62 19 00-0159 LF Up To 5" Girth, 24 Gauge, Galvanized Steel Drip Edge	12.82	1.70
07 62 19 00-0160 LF >5" To 7" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	15.91	1.81
07 62 19 00-0161 LF >7" To 9" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	18.24	2.04
07 62 19 00-0162 LF >9" To 12" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	21.92	2.15
07 62 19 00-0163 LF >12" To 15" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	27.38	2.27
07 62 19 00-0164 KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0150)		
07 62 19 00-0165 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0164)		
07 62 19 00-0166 LF Up To 5" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	14.83	1.70
07 62 19 00-0167 LF >5" To 7" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	18.62	1.81
07 62 19 00-0168 LF >7" To 9" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	21.44	2.04
07 62 19 00-0169 LF >9" To 12" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	25.94	2.15
07 62 19 00-0170 LF >12" To 15" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	32.77	2.27
07 62 19 00-0171 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0164)		
07 62 19 00-0172 LF Up To 5" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	16.29	1.70
07 62 19 00-0173 LF >5" To 7" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	20.58	1.81
07 62 19 00-0174 LF >7" To 9" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	23.75	2.04
07 62 19 00-0175 LF >9" To 12" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	28.86	2.15
07 62 19 00-0176 LF >12" To 15" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	36.66	2.27
07 62 19 00-0177 Stainless Steel Drip Edge (07 62 19 00-0001) Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0178 26 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)		
07 62 19 00-0179 LF Up To 5" Girth, 26 Gauge, Stainless Steel Drip Edge.....	20.41	1.70
07 62 19 00-0180 LF >5" To 7" Girth, 26 Gauge, Stainless Steel Drip Edge.....	25.98	1.81
07 62 19 00-0181 LF >7" To 9" Girth, 26 Gauge, Stainless Steel Drip Edge	30.26	2.04
07 62 19 00-0182 LF >9" To 12" Girth, 26 Gauge, Stainless Steel Drip Edge.....	37.10	2.15
07 62 19 00-0183 LF >12" To 15" Girth, 26 Gauge, Stainless Steel Drip Edge	47.66	2.27
07 62 19 00-0184 24 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)		
07 62 19 00-0185 LF Up To 5" Girth, 24 Gauge, Stainless Steel Drip Edge.....	25.23	1.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0186 LF >5" To 7" Girth, 24 Gauge, Stainless Steel Drip Edge	32.41	1.81
07 62 19 00-0187 LF >7" To 9" Girth, 24 Gauge, Stainless Steel Drip Edge	37.92	2.04
07 62 19 00-0188 LF >9" To 12" Girth, 24 Gauge, Stainless Steel Drip Edge	46.75	2.15
07 62 19 00-0189 LF >12" To 15" Girth, 24 Gauge, Stainless Steel Drip Edge	60.52	2.27
07 62 19 00-0190 22 Gauge, Stainless Steel Drip Edge <small>(07 62 19 00-0177)</small>		
07 62 19 00-0191 LF Up To 5" Girth, 22 Gauge, Stainless Steel Drip Edge	30.91	1.70
07 62 19 00-0192 LF >5" To 7" Girth, 22 Gauge, Stainless Steel Drip Edge	39.97	1.81
07 62 19 00-0193 LF >7" To 9" Girth, 22 Gauge, Stainless Steel Drip Edge	46.90	2.04
07 62 19 00-0194 LF >9" To 12" Girth, 22 Gauge, Stainless Steel Drip Edge	58.10	2.15
07 62 19 00-0195 LF >12" To 15" Girth, 22 Gauge, Stainless Steel Drip Edge	75.65	2.27

07 63 Sheet Metal Roofing Specialties (07 60)

07 63 00 00-0001 Pitch Pockets <small>(07 63)</small>	Note: Cut into deck, filled with non-shrink grout, includes blocking.	
07 63 00 00-0002 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pockets <small>(07 63 00 00-0001)</small>		
07 63 00 00-0003 EA 4" x 4" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	94.07	
For Pourable Sealer Filled, Add	37.92	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	18.97	
07 63 00 00-0004 EA 6" x 6" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	112.47	
For Pourable Sealer Filled, Add	85.37	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	42.80	
07 63 00 00-0005 EA 8" x 8" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	136.32	
For Pourable Sealer Filled, Add	151.67	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	75.66	
07 63 00 00-0006 EA 8" x 10" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	149.97	
For Pourable Sealer Filled, Add	189.59	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	95.11	
07 63 00 00-0007 EA 8" x 12" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	162.64	
For Pourable Sealer Filled, Add	227.51	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	113.77	
07 63 00 00-0008 SF 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	190.84	
For Pourable Sealer Filled, Add	341.27	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	169.58	
07 63 00 00-0009 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pockets <small>(07 63 00 00-0001)</small>		
07 63 00 00-0010 EA 4" x 4" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	112.73	
For Pourable Sealer Filled, Add	37.92	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	18.97	
07 63 00 00-0011 EA 6" x 6" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	134.18	
For Pourable Sealer Filled, Add	85.37	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	42.80	
07 63 00 00-0012 EA 8" x 8" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	162.11	
For Pourable Sealer Filled, Add	151.67	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	75.66	
07 63 00 00-0013 EA 8" x 10" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	179.85	
For Pourable Sealer Filled, Add	189.59	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	95.11	
07 63 00 00-0014 EA 8" x 12" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	193.23	
For Pourable Sealer Filled, Add	227.51	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	113.77	
07 63 00 00-0015 SF 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	223.47	
For Pourable Sealer Filled, Add	341.27	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	169.58	
07 63 00 00-0016 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pockets <small>(07 63 00 00-0001)</small>		
07 63 00 00-0017 EA 4" x 4" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	119.54	
For Pourable Sealer Filled, Add	37.92	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	18.97	
07 63 00 00-0018 EA 6" x 6" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	141.26	
For Pourable Sealer Filled, Add	85.37	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	42.80	
07 63 00 00-0019 EA 8" x 8" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	162.64	
For Pourable Sealer Filled, Add	151.67	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	75.66	
07 63 00 00-0020 EA 8" x 10" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	175.85	
For Pourable Sealer Filled, Add	189.59	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	95.11	
07 63 00 00-0021 EA 8" x 12" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	187.98	
For Pourable Sealer Filled, Add	227.51	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	113.77	
07 63 00 00-0022 SF 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	214.67	
For Pourable Sealer Filled, Add	341.27	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	169.58	

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 63 Sheet Metal Roofing Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 63 00 00-0023 Clean, Repair And Refill Existing Pitch Pockets With Non-Shrink Grout ^(07 63 00 00-0001)		
Note: Includes removing existing filler and refilling with non-shrink grout.		
07 63 00 00-0024 EA Clean, Repair And Refill Existing 4" x 4" Pitch Pocket With Non-Shrink Grout.....	75.14	
For Pourable Sealer Filled, Add	37.92	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	18.97	
07 63 00 00-0025 EA Clean, Repair And Refill Existing 6" x 6" Pitch Pocket With Non-Shrink Grout.....	86.35	
For Pourable Sealer Filled, Add	85.37	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	42.80	
07 63 00 00-0026 EA Clean, Repair And Refill Existing 8" x 8" Pitch Pocket With Non-Shrink Grout.....	101.27	
For Pourable Sealer Filled, Add	151.67	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	75.66	
07 63 00 00-0027 EA Clean, Repair And Refill Existing 8" x 10" Pitch Pocket With Non-Shrink Grout.....	110.73	
For Pourable Sealer Filled, Add	189.59	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	95.11	
07 63 00 00-0028 EA Clean, Repair And Refill Existing 8" x 12" Pitch Pocket With Non-Shrink Grout.....	120.20	
For Pourable Sealer Filled, Add	227.51	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	113.77	
07 63 00 00-0029 SF Clean, Repair And Refill Existing Pitch Pocket With Non-Shrink Grout.....	144.06	
For Pourable Sealer Filled, Add	341.27	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	169.58	
07 63 00 00-0030 Lead Pipe Flashing For Roofs ^(07 63)		
Note: Includes 6" skirt base.		
07 63 00 00-0031 EA 1-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3/4" Pipe.....	116.80	38.70
07 63 00 00-0032 EA 1-1/2" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 1" Pipe.....	116.80	38.70
07 63 00 00-0033 EA 2-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 2" Pipe.....	138.88	38.70
07 63 00 00-0034 EA 3-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3" Pipe.....	151.49	38.70
07 63 00 00-0035 EA 4-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3-1/2" Pipe.....	157.80	38.70
07 63 00 00-0036 EA 4-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 4" Pipe.....	160.95	38.70
07 63 00 00-0037 EA 6-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 6" Pipe.....	192.49	38.70
07 63 00 00-0038 EA 8-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 8" Pipe.....	206.68	38.70
07 63 00 00-0039 Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing ^(07 63)		
07 63 00 00-0040 EA 2" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	94.88	25.01
07 63 00 00-0041 EA 3" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	95.96	25.01
07 63 00 00-0042 EA 4" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	99.86	25.01
07 63 00 00-0043 EA 6" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	103.22	25.01
07 65 Flexible Flashing ^(07 60)		
07 65 16 Modified Bituminous Sheet Flashing ^(07 65)		
07 65 16 00-0001 Liquid Flashing System For Modified And BUR Systems ^(07 65 16)		
See CSI section 07 51 13 00-0036 for ceramic coated roofing granules.		
07 65 16 00-0002 SF 60 Mil, Urethane Elastomer Liquid Applied Flashing.....	14.46	2.17
Note: Includes applying a 30 mil base coat, rolling in a stichbonded polyester reinforcing scrim and applying a 30 mil second coat.		
07 65 19 Plastic Sheet Flashing ^(07 65)		
07 65 19 00-0001 Plastic Flashing And Trim ^(07 65 19)		
07 65 19 00-0002 Neoprene Flashing ^(07 65 19 00-0001)		
07 65 19 00-0003 60 Mil Neoprene Flashing ^(07 65 19 00-0002)		
07 65 19 00-0004 LF 6" Wide Strip, 60 Mil, Neoprene Flashing.....	9.57	3.05
07 65 19 00-0005 LF 12" Wide Strip, 60 Mil, Neoprene Flashing.....	12.72	3.28
07 65 19 00-0006 LF 18" Wide Strip, 60 Mil, Neoprene Flashing.....	16.20	3.62
07 65 19 00-0007 LF 24" Wide Strip, 60 Mil, Neoprene Flashing.....	19.89	4.08
07 65 33 Flexible Roof Boot ^(07 65)		
07 65 33 00-0001 Neoprene Roof Boot ^(07 65 33)		
07 65 33 00-0002 EA 2" Diameter Pipe, Neoprene Roof Boot.....	45.57	9.40
07 65 33 00-0003 EA 3" Diameter Pipe, Neoprene Roof Boot.....	53.75	10.53
07 65 33 00-0004 EA 4" Diameter Pipe, Neoprene Roof Boot.....	59.85	11.33
07 70 Roof and Wall Specialties and Accessories ⁽⁰⁷⁾		
07 71 Roof Specialties ^(07 70)		
07 71 13 Manufactured Copings ^(07 71)		
07 71 13 00-0001 Galvanized Steel Copings ^(07 71 13)		



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0002		KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0001)</small>		
		Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0003	LF	10" To 14" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	33.11	2.45
07 71 13 00-0004	LF	>14" To 16" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	34.94	2.65
07 71 13 00-0005	LF	>16" To 22" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	39.81	2.78
07 71 13 00-0006	LF	>22" To 30" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	46.23	3.05
07 71 13 00-0007	LF	>30" To 42" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	55.82	3.19
07 71 13 00-0008		Aluminum Copings <small>(07 71 13)</small>		
07 71 13 00-0009		Mill Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0009)</small>		
		Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0010		0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0009)</small>		
07 71 13 00-0011	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	26.34	2.45
07 71 13 00-0012	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	28.12	2.65
07 71 13 00-0013	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	32.74	2.78
07 71 13 00-0014	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	39.06	3.05
07 71 13 00-0015	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	48.47	3.19
07 71 13 00-0016		0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0009)</small>		
07 71 13 00-0017	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	28.56	2.45
07 71 13 00-0018	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	30.49	2.65
07 71 13 00-0019	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	35.55	2.78
07 71 13 00-0020	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	42.46	3.05
07 71 13 00-0021	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	52.79	3.19
07 71 13 00-0022		0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0009)</small>		
07 71 13 00-0023	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	30.39	2.45
07 71 13 00-0024	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	32.61	2.65
07 71 13 00-0025	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	39.04	2.78
07 71 13 00-0026	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	48.72	3.05
07 71 13 00-0027	LF	>30" To 42" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	62.92	3.19
07 71 13 00-0028		KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0008)</small>		
		Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0029		0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0028)</small>		
07 71 13 00-0030	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	36.35	2.45
07 71 13 00-0031	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	38.79	2.65
07 71 13 00-0032	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	45.39	2.78
07 71 13 00-0033	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	54.35	3.05
07 71 13 00-0034	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	67.89	3.19
07 71 13 00-0035		0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0028)</small>		
07 71 13 00-0036	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	39.58	2.45
07 71 13 00-0037	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	42.22	2.65
07 71 13 00-0038	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	49.46	2.78
07 71 13 00-0039	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	59.27	3.05
07 71 13 00-0040	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	74.15	3.19



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 71 13 00-0041		0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0028)</small>		
07 71 13 00-0042	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	42.23	2.45
07 71 13 00-0043	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	45.29	2.65
07 71 13 00-0044	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	54.52	2.78
07 71 13 00-0045	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	68.35	3.05
07 71 13 00-0046	LF	>30" To 42" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	88.84	3.19
07 71 13 00-0047		Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0008)</small>		
		Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0048		0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0047)</small>		
07 71 13 00-0049	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	38.29	2.45
07 71 13 00-0050	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	40.85	2.65
07 71 13 00-0051	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	47.83	2.78
07 71 13 00-0052	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	57.30	3.05
07 71 13 00-0053	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	71.65	3.19
07 71 13 00-0054		0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0047)</small>		
07 71 13 00-0055	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	41.71	2.45
07 71 13 00-0056	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	44.49	2.65
07 71 13 00-0057	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	52.15	2.78
07 71 13 00-0058	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	62.52	3.05
07 71 13 00-0059	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	78.28	3.19
07 71 13 00-0060		0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0047)</small>		
07 71 13 00-0061	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	44.52	2.45
07 71 13 00-0062	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	47.74	2.65
07 71 13 00-0063	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	57.52	2.78
07 71 13 00-0064	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	72.15	3.05
07 71 13 00-0065	LF	>30" To 42" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	93.85	3.19
07 71 13 00-0066		Removal And Reinstallation Of Metal Coping <small>(07 71 13)</small>		
07 71 13 00-0067	LF	Removal And Reinstallation Of Metal Coping	10.15	
07 71 19		Manufactured Gravel Stops and Fasciae <small>(07 71)</small>		
07 71 19 00-0001		Gravel Stop <small>(07 71 19)</small>		
07 71 19 00-0002		Aluminum Gravel Stop <small>(07 71 19 00-0001)</small>		
07 71 19 00-0003		Aluminum Gravel Stop <small>(07 71 19 00-0002)</small>		
07 71 19 00-0004		KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0003)</small>		
07 71 19 00-0005		0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0004)</small>		
07 71 19 00-0006	LF	4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	37.95	1.93
07 71 19 00-0007	LF	>6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	39.23	2.27
07 71 19 00-0008	LF	>10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	40.57	2.49



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0009				0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0004)</small>		
	07 71 19 00-0010	LF		4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	40.33	1.93
	07 71 19 00-0011	LF		>6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	41.71	2.27
	07 71 19 00-0012	LF		>10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	43.18	2.49
07 71 19 00-0013				0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0004)</small>		
	07 71 19 00-0014	LF		4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	43.43	1.93
	07 71 19 00-0015	LF		>6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	44.68	2.27
	07 71 19 00-0016	LF		>10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	46.48	2.49
07 71 19 00-0017				0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0004)</small>		
	07 71 19 00-0018	LF		4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	45.53	1.93
	07 71 19 00-0019	LF		>6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	46.86	2.27
	07 71 19 00-0020	LF		>10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	48.78	2.49
07 71 19 00-0021				Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0003)</small>		
07 71 19 00-0022				0.032" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
	07 71 19 00-0023	LF		4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....	24.77	1.93
	07 71 19 00-0024	LF		>6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....	26.72	2.27
	07 71 19 00-0025	LF		>10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....	28.68	2.49
07 71 19 00-0026				0.040" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
	07 71 19 00-0027	LF		4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	26.75	1.93
	07 71 19 00-0028	LF		>6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	28.43	2.27
	07 71 19 00-0029	LF		>10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	30.00	2.49
07 71 19 00-0030				0.050" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
	07 71 19 00-0031	LF		4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....	28.73	1.93
	07 71 19 00-0032	LF		>6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....	30.41	2.27
	07 71 19 00-0033	LF		>10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....	32.14	2.49
07 71 19 00-0034				0.063" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
	07 71 19 00-0035	LF		4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop.....	30.87	1.93
	07 71 19 00-0036	LF		>6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop.....	32.38	2.27
	07 71 19 00-0037	LF		>10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop.....	33.73	2.49
07 71 19 00-0038				Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0003)</small>		
07 71 19 00-0039				0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0038)</small>		
	07 71 19 00-0040	LF		4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	45.27	1.93
	07 71 19 00-0041	LF		>6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	46.86	2.27
	07 71 19 00-0042	LF		>10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	48.30	2.49
07 71 19 00-0043				0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0038)</small>		
	07 71 19 00-0044	LF		4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	48.12	1.93
	07 71 19 00-0045	LF		>6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	49.84	2.27
	07 71 19 00-0046	LF		>10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	51.42	2.49
07 71 19 00-0047				0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0038)</small>		
	07 71 19 00-0048	LF		4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	51.84	1.93
	07 71 19 00-0049	LF		>6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	53.40	2.27
	07 71 19 00-0050	LF		>10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	54.71	2.49
07 71 19 00-0051				0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0038)</small>		
	07 71 19 00-0052	LF		4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	54.36	1.93
	07 71 19 00-0053	LF		>6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	56.01	2.27
	07 71 19 00-0054	LF		>10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	57.43	2.49
07 71 19 00-0055				Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0002)</small>		
				Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0056				KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0055)</small>		
07 71 19 00-0057				0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		
	07 71 19 00-0058	LF		4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	42.80	2.04

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0059 LF >6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	45.51	2.43
07 71 19 00-0060 LF >10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	48.60	2.77
07 71 19 00-0061 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0056)		
07 71 19 00-0062 LF 4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	45.18	2.04
07 71 19 00-0063 LF >6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	47.99	2.43
07 71 19 00-0064 LF >10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	51.21	2.77
07 71 19 00-0065 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0056)		
07 71 19 00-0066 LF 4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	48.28	2.04
07 71 19 00-0067 LF >6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	50.96	2.43
07 71 19 00-0068 LF >10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	54.51	2.77
07 71 19 00-0069 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0056)		
07 71 19 00-0070 LF 4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	50.38	2.04
07 71 19 00-0071 LF >6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	53.14	2.43
07 71 19 00-0072 LF >10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	56.81	2.77
07 71 19 00-0073 Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0055)		
07 71 19 00-0074 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)		
07 71 19 00-0075 LF 4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	31.45	2.04
07 71 19 00-0076 LF >6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	33.67	2.43
07 71 19 00-0077 LF >10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	36.22	2.77
07 71 19 00-0078 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)		
07 71 19 00-0079 LF 4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	33.09	2.04
07 71 19 00-0080 LF >6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	35.38	2.43
07 71 19 00-0081 LF >10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	38.03	2.77
07 71 19 00-0082 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)		
07 71 19 00-0083 LF 4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	35.23	2.04
07 71 19 00-0084 LF >6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	37.43	2.43
07 71 19 00-0085 LF >10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	40.17	2.77
07 71 19 00-0086 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)		
07 71 19 00-0087 LF 4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	36.68	2.04
07 71 19 00-0088 LF >6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	38.93	2.43
07 71 19 00-0089 LF >10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	41.76	2.77
07 71 19 00-0090 Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0055)		
07 71 19 00-0091 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)		
07 71 19 00-0092 LF 4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	50.12	2.04
07 71 19 00-0093 LF >6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	53.14	2.43
07 71 19 00-0094 LF >10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	56.33	2.77
07 71 19 00-0095 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)		
07 71 19 00-0096 LF 4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	52.97	2.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0097 LF >6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	56.12	2.43
07 71 19 00-0098 LF >10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	59.45	2.77
07 71 19 00-0099 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0090)</small>		
07 71 19 00-0100 LF 4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	56.69	2.04
07 71 19 00-0101 LF >6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	59.68	2.43
07 71 19 00-0102 LF >10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	62.74	2.77
07 71 19 00-0103 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0090)</small>		
07 71 19 00-0104 LF 4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	59.21	2.04
07 71 19 00-0105 LF >6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	62.29	2.43
07 71 19 00-0106 LF >10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	65.46	2.77
07 71 19 00-0107 Stainless Steel Gravel Stop <small>(07 71 19 00-0001)</small>		
07 71 19 00-0108 Stainless Steel Gravel Stop <small>(07 71 19 00-0107)</small>		
07 71 19 00-0109 26 Gauge, Stainless Steel Gravel Stop <small>(07 71 19 00-0108)</small>		
07 71 19 00-0110 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....	36.96	1.93
07 71 19 00-0111 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop	48.58	2.27
07 71 19 00-0112 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop	72.09	2.49
07 71 19 00-0113 24 Gauge, Stainless Steel Gravel Stop <small>(07 71 19 00-0108)</small>		
07 71 19 00-0114 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....	46.04	1.93
07 71 19 00-0115 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop	60.68	2.27
07 71 19 00-0116 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop	90.25	2.49
07 71 19 00-0117 22 Gauge, Stainless Steel Gravel Stop <small>(07 71 19 00-0108)</small>		
07 71 19 00-0118 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	55.69	1.93
07 71 19 00-0119 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop	73.54	2.27
07 71 19 00-0120 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop	109.54	2.49
07 71 19 00-0121 Stainless Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0107)</small>		
Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0122 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0121)</small>		
07 71 19 00-0123 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	43.68	2.04
07 71 19 00-0124 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	57.30	2.43
07 71 19 00-0125 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	83.27	2.77
07 71 19 00-0126 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0121)</small>		
07 71 19 00-0127 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	52.76	2.04
07 71 19 00-0128 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	69.40	2.43
07 71 19 00-0129 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	101.43	2.77
07 71 19 00-0130 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0121)</small>		
07 71 19 00-0131 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	62.41	2.04
07 71 19 00-0132 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	82.26	2.43
07 71 19 00-0133 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	120.72	2.77
07 71 19 00-0134 Galvanized Steel Gravel Stop <small>(07 71 19 00-0001)</small>		
07 71 19 00-0135 Galvanized Steel Gravel Stop <small>(07 71 19 00-0134)</small>		
07 71 19 00-0136 KYNAR 500® Finish, Galvanized Steel Gravel Stop <small>(07 71 19 00-0135)</small>		
07 71 19 00-0137 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop <small>(07 71 19 00-0136)</small>		
07 71 19 00-0138 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....	35.36	1.93
07 71 19 00-0139 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....	36.59	2.27
07 71 19 00-0140 LF >10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....	38.09	2.49



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 71 19 00-0141		Galvanized Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0134) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0142		KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0141)		
07 71 19 00-0143		24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0142)		
07 71 19 00-0144	LF	4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat.....	40.43	2.04
07 71 19 00-0145	LF	>6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat.....	43.16	2.43
07 71 19 00-0146	LF	>10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat.....	46.49	2.77
07 71 19 00-0147		Copper Gravel Stop (07 71 19 00-0001)		
07 71 19 00-0148		Copper Gravel Stop (07 71 19 00-0147)		
07 71 19 00-0149		20 Ounce, Copper Gravel Stop (07 71 19 00-0148)		
07 71 19 00-0150	LF	4" To 6" Face Height, 20 Ounce, Copper Gravel Stop.....	58.87	1.93
07 71 19 00-0151	LF	>6" To 10" Face Height, 20 Ounce, Copper Gravel Stop.....	67.41	2.27
07 71 19 00-0152	LF	>10" To 18" Face Height, 20 Ounce, Copper Gravel Stop.....	77.88	2.49
07 71 19 00-0153		16 Ounce, Copper Gravel Stop (07 71 19 00-0148)		
07 71 19 00-0154	LF	4" To 6" Face Height, 16 Ounce, Copper Gravel Stop.....	71.49	1.93
07 71 19 00-0155	LF	>6" To 10" Face Height, 16 Ounce, Copper Gravel Stop.....	82.83	2.27
07 71 19 00-0156	LF	>10" To 18" Face Height, 16 Ounce, Copper Gravel Stop.....	94.71	2.49
07 71 19 00-0157		Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0147) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0158		20 Ounce, Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0157)		
07 71 19 00-0159	LF	4" To 6" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat.....	61.26	2.04
07 71 19 00-0160	LF	>6" To 10" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat.....	70.47	2.43
07 71 19 00-0161	LF	>10" To 18" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat.....	81.75	2.77
07 71 19 00-0162		16 Ounce, Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0157)		
07 71 19 00-0163	LF	4" To 6" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat.....	73.89	2.04
07 71 19 00-0164	LF	>6" To 10" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat.....	85.90	2.43
07 71 19 00-0165	LF	>10" To 18" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat.....	98.58	2.77
07 71 19 00-0166		Fascia (07 71 19)		
07 71 19 00-0167		Snap-On Cover Fascia (07 71 19 00-0166) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0168		Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0167)		
07 71 19 00-0169		KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0168)		
07 71 19 00-0170		24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0169)		
07 71 19 00-0171	LF	3" To 5" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....	43.24	2.83
07 71 19 00-0172	LF	>5" To 7" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....	48.65	2.94
07 71 19 00-0173	LF	>7" To 9" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....	52.12	3.05
07 71 19 00-0174		Accessories For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0169)		
07 71 19 00-0175		Fascia Sumps For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0174)		
07 71 19 00-0176	EA	Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....	301.60	3.97
07 71 19 00-0177	EA	Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....	322.15	3.97
07 71 19 00-0178	EA	Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....	335.05	3.97
07 71 19 00-0179		Fascia Spillout Scuppers For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0174)		
07 71 19 00-0180	EA	Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....	245.66	3.97
07 71 19 00-0181	EA	Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....	256.03	3.97



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0182	EA	Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	262.34	3.97
07 71 19 00-0183		Aluminum Snap-On Cover Fascia <small>(07 71 19 00-0167)</small>		
07 71 19 00-0184		KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0183)</small>		
07 71 19 00-0185		0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0184)</small>		
07 71 19 00-0186	LF	3" To 5" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	25.29	2.83
07 71 19 00-0187	LF	>5" To 7" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	28.61	2.94
07 71 19 00-0188	LF	>7" To 9" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	30.37	3.05
07 71 19 00-0189		0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0184)</small>		
07 71 19 00-0190	LF	3" To 5" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	26.58	2.83
07 71 19 00-0191	LF	>5" To 7" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	30.26	2.94
07 71 19 00-0192	LF	>7" To 9" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	32.23	3.05
07 71 19 00-0193		Accessories For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0184)</small>		
07 71 19 00-0194		Fascia Sumps For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0193)</small>		
07 71 19 00-0195	EA	Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	164.17	3.97
07 71 19 00-0196	EA	Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	178.05	3.97
07 71 19 00-0197	EA	Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	184.12	3.97
07 71 19 00-0198		Fascia Spillout Scuppers For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0193)</small>		
07 71 19 00-0199	EA	Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	129.96	3.97
07 71 19 00-0200	EA	Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	136.87	3.97
07 71 19 00-0201	EA	Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	139.90	3.97
07 71 19 00-0202		Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0183)</small>		
07 71 19 00-0203		0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0202)</small>		
07 71 19 00-0204	LF	3" To 5" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	29.22	2.83
07 71 19 00-0205	LF	>5" To 7" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	33.16	2.94
07 71 19 00-0206	LF	>7" To 9" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	35.23	3.05
07 71 19 00-0207		0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0202)</small>		
07 71 19 00-0208	LF	3" To 5" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	30.76	2.83
07 71 19 00-0209	LF	>5" To 7" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	35.14	2.94
07 71 19 00-0210	LF	>7" To 9" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	37.45	3.05
07 71 19 00-0211		Accessories For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0202)</small>		
07 71 19 00-0212		Fascia Sumps For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0211)</small>		
07 71 19 00-0213	EA	Fascia Sump For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	203.24	3.97
07 71 19 00-0214	EA	Fascia Sump For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	220.58	3.97
07 71 19 00-0215	EA	Fascia Sump For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	228.17	3.97



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0216			Fascia Spillover Scuppers For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0211)		
07 71 19 00-0217	EA		Fascia Spillover Scupper For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	160.47	3.97
07 71 19 00-0218	EA		Fascia Spillover Scupper For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	169.11	3.97
07 71 19 00-0219	EA		Fascia Spillover Scupper For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	172.89	3.97
07 71 23			Manufactured Gutters and Downspouts (07 71)		
			Note: Includes all necessary support straps.		
07 71 23 00-0001			Aluminum Gutters And Downspouts (07 71 23)		
07 71 23 00-0002			Aluminum Gutters (07 71 23 00-0001)		
			Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0003			K-Style Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0004	LF		5", 0.027" Thick, K-Style Aluminum Gutter	12.17	5.41
			For Up To 100', Add	2.55	
			For >100' To 250', Add	1.05	
			For >1,000', Deduct	-0.89	
			For Kynar 500® Finish, Add	1.47	
07 71 23 00-0005	LF		6", 0.027" Thick, K-Style Aluminum Gutter	13.51	5.70
			For Up To 100', Add	2.75	
			For >100' To 250', Add	1.14	
			For >1,000', Deduct	-0.94	
			For Kynar 500® Finish, Add	1.87	
07 71 23 00-0006	LF		5", 0.032" Thick, K-Style Aluminum Gutter	12.64	5.41
			For Up To 100', Add	2.60	
			For >100' To 250', Add	1.08	
			For >1,000', Deduct	-0.89	
			For Kynar 500® Finish, Add	1.68	
07 71 23 00-0007	LF		6", 0.032" Thick, K-Style Aluminum Gutter	14.11	5.70
			For Up To 100', Add	2.81	
			For >100' To 250', Add	1.17	
			For >1,000', Deduct	-0.94	
			For Kynar 500® Finish, Add	2.14	
07 71 23 00-0008	LF		7", 0.032" Thick, K-Style Aluminum Gutter	25.47	5.99
			For Up To 100', Add	4.06	
			For >100' To 250', Add	1.78	
			For >1,000', Deduct	-1.01	
			For Kynar 500® Finish, Add	6.93	
07 71 23 00-0009	LF		8", 0.032" Thick, K-Style Aluminum Gutter	27.92	6.72
			For Up To 100', Add	4.46	
			For >100' To 250', Add	1.95	
			For >1,000', Deduct	-1.11	
			For Kynar 500® Finish, Add	7.57	
07 71 23 00-0010	LF		8", 0.040" Thick, K-Style Aluminum Gutter	31.17	6.72
			For Up To 100', Add	4.78	
			For >100' To 250', Add	2.11	
			For >1,000', Deduct	-1.11	
			For Kynar 500® Finish, Add	9.03	
07 71 23 00-0011			Half Round Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0012	LF		5", 0.027" Thick, Half Round Aluminum Gutter	21.58	5.41
			For Up To 100', Add	3.49	
			For >100' To 250', Add	1.52	
			For >1,000', Deduct	-0.89	
			For Kynar 500® Finish, Add	5.70	
07 71 23 00-0013	LF		6", 0.032" Thick, Half Round Aluminum Gutter	25.84	5.70
			For Up To 100', Add	3.99	
			For >100' To 250', Add	1.76	
			For >1,000', Deduct	-0.94	
			For Kynar 500® Finish, Add	7.42	
07 71 23 00-0014			Box Style Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0015	LF		6", 0.027" Thick, Box Style Aluminum Gutter	22.85	6.72
			For Up To 100', Add	3.95	
			For >100' To 250', Add	1.70	
			For >1,000', Deduct	-1.11	
			For Kynar 500® Finish, Add	5.29	
07 71 23 00-0016	LF		6", 0.032" Thick, Box Style Aluminum Gutter	22.91	6.72
			For Up To 100', Add	3.96	
			For >100' To 250', Add	1.70	
			For >1,000', Deduct	-1.11	
			For Kynar 500® Finish, Add	5.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0017 LF 7", 0.032" Thick, Box Style Aluminum Gutter..... <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	26.55 4.43 1.92 -1.18 6.62	7.16
07 71 23 00-0018 LF 8", 0.032" Thick, Box Style Aluminum Gutter..... <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	29.90 4.88 2.12 -1.26 7.80	7.60
07 71 23 00-0019 Aluminum Gutter End Caps (07 71 23 00-0001)		
07 71 23 00-0020 K-Style, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0021 EA 5", K-Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	4.06 0.51	
07 71 23 00-0022 EA 6", K-Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	4.98 0.92	
07 71 23 00-0023 EA 7", K-Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	10.59 3.45	
07 71 23 00-0024 EA 8", K-Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	12.30 4.22	
07 71 23 00-0025 Half Round, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0026 EA 5", Half Round Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	6.42 1.57	
07 71 23 00-0027 EA 6", Half Round Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	9.82 3.10	
07 71 23 00-0028 Box Style, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0029 EA 6", Box Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	11.53 3.87	
07 71 23 00-0030 EA 7", Box Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	12.51 4.31	
07 71 23 00-0031 EA 8", Box Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	14.65 5.27	
07 71 23 00-0032 Aluminum Gutter Miters (07 71 23 00-0001) Note: Inside or outside miters.		
07 71 23 00-0033 K-Style, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0034 EA 5", K-Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	23.72 4.03	
07 71 23 00-0035 EA 6", K-Style Aluminum Gutter Miter <i>For Kynar 500® Finish, Add</i>	31.29 6.98	
07 71 23 00-0036 EA 7", K-Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	91.45 33.59	
07 71 23 00-0037 EA 8", K-Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	99.25 36.58	
07 71 23 00-0038 Half Round, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0039 EA 5", Half Round Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	40.17 11.43	
07 71 23 00-0040 EA 6", Half Round Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	62.58 21.06	
07 71 23 00-0041 Box Style, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0042 EA 6", Box Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	74.28 26.33	
07 71 23 00-0043 EA 7", Box Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	110.12 41.99	
07 71 23 00-0044 EA 8", Box Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	119.57 45.72	
07 71 23 00-0045 Aluminum Gutter Wire Strainers (07 71 23 00-0001)		
07 71 23 00-0046 EA 3" Diameter, Round Aluminum Wire Strainer..... <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	16.53 4.01 1.25 2.59 3.75	3.65
07 71 23 00-0047 EA 4" Diameter, Round Aluminum Wire Strainer..... <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	24.04 7.39 2.30 4.76 6.90	3.65

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0048 Aluminum Downspouts (07 71 23 00-0001) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0049 Round Aluminum Downspouts (07 71 23 00-0048)		
07 71 23 00-0050 LF 3" Diameter, 0.019" Thick, Round Aluminum Downspout.....	8.27	3.51
For Up To 100', Add	1.40	
For >100 To 250', Add	0.60	
For >1,000', Deduct	-0.38	
For Kynar 500® Finish, Add	2.01	
For 0.024" Thick, Add	0.63	
For 0.027" Thick, Add	1.30	
For 0.031" Thick, Add	1.88	
07 71 23 00-0051 LF 4" Diameter, 0.019" Thick, Round Aluminum Downspout.....	9.32	3.51
For Up To 100', Add	1.50	
For >100 To 250', Add	0.66	
For >1,000', Deduct	-0.38	
For Kynar 500® Finish, Add	2.48	
For 0.024" Thick, Add	0.77	
For 0.027" Thick, Add	1.60	
For 0.031" Thick, Add	2.32	
07 71 23 00-0052 Rectangular Aluminum Downspouts (07 71 23 00-0048)		
07 71 23 00-0053 LF 2" x 3", 0.019" Thick, Rectangular Aluminum Downspout.....	6.09	3.51
For Up To 100', Add	1.18	
For >100 To 250', Add	0.49	
For >1,000', Deduct	-0.38	
For Kynar 500® Finish, Add	1.03	
For 0.024" Thick, Add	0.32	
For 0.027" Thick, Add	0.66	
For 0.031" Thick, Add	0.96	
07 71 23 00-0054 LF 3" x 4", 0.019" Thick, Rectangular Aluminum Downspout.....	7.42	3.51
For Up To 100', Add	1.31	
For >100 To 250', Add	0.56	
For >1,000', Deduct	-0.38	
For Kynar 500® Finish, Add	1.63	
For 0.024" Thick, Add	0.51	
For 0.027" Thick, Add	1.05	
For 0.031" Thick, Add	1.52	
07 71 23 00-0055 LF 4" x 5", 0.019" Thick, Rectangular Aluminum Downspout.....	13.04	3.51
For Up To 100', Add	1.87	
For >100 To 250', Add	0.84	
For >1,000', Deduct	-0.38	
For Kynar 500® Finish, Add	4.16	
For 0.024" Thick, Add	1.29	
For 0.027" Thick, Add	2.68	
For 0.031" Thick, Add	3.88	
07 71 23 00-0056 Aluminum Devices (07 71 23 00-0001)		
07 71 23 00-0057 EA Thru-Wall Aluminum Scupper Outlet.....	250.10	25.47
For Kynar 500® Finish, Add	74.33	
07 71 23 00-0058 EA Aluminum Leader/Conductor Head.....	251.05	28.31
For Kynar 500® Finish, Add	87.50	
07 71 23 00-0059 Copper Gutters And Downspouts (07 71 23)		
07 71 23 00-0060 Copper Gutters (07 71 23 00-0059) Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0061 K-Style Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0062 LF 4", 16 Ounce, K-Style Copper Gutter.....	21.74	5.12
For Up To 100', Add	3.45	
For >100' To 250', Add	1.51	
For >1,000', Deduct	-0.85	
07 71 23 00-0063 LF 5", 16 Ounce, K-Style Copper Gutter.....	30.45	5.41
For Up To 100', Add	4.38	
For >100' To 250', Add	1.97	
For >1,000', Deduct	-0.89	
07 71 23 00-0064 LF 6", 16 Ounce, K-Style Copper Gutter.....	36.19	5.70
For Up To 100', Add	5.02	
For >100' To 250', Add	2.28	
For >1,000', Deduct	-0.94	
07 71 23 00-0065 LF 5", 20 Ounce, K-Style Copper Gutter.....	38.20	5.41
For Up To 100', Add	5.16	
For >100' To 250', Add	2.36	
For >1,000', Deduct	-0.89	
07 71 23 00-0066 LF 6", 20 Ounce, K-Style Copper Gutter.....	47.16	5.70
For Up To 100', Add	6.12	
For >100' To 250', Add	2.83	
For >1,000', Deduct	-0.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0067 LF 7", 20 Ounce, K-Style Copper Gutter.....	54.92	5.99
<i>For Up To 100', Add</i>	7.00	
<i>For >100' To 250', Add</i>	3.25	
<i>For >1,000', Deduct</i>	-1.01	
07 71 23 00-0068 LF 8", 20 Ounce, K-Style Copper Gutter.....	61.05	6.72
<i>For Up To 100', Add</i>	7.77	
<i>For >100' To 250', Add</i>	3.61	
<i>For >1,000', Deduct</i>	-1.11	
07 71 23 00-0069 Half Round Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0070 LF 5", 16 Ounce, Half Round Copper Gutter	26.42	5.41
<i>For Up To 100', Add</i>	3.98	
<i>For >100' To 250', Add</i>	1.77	
<i>For >1,000', Deduct</i>	-0.89	
07 71 23 00-0071 LF 6", 16 Ounce, Half Round Copper Gutter	33.18	5.70
<i>For Up To 100', Add</i>	4.72	
<i>For >100' To 250', Add</i>	2.13	
<i>For >1,000', Deduct</i>	-0.94	
07 71 23 00-0072 LF 7", 16 Ounce, Half Round Copper Gutter	54.95	5.99
<i>For Up To 100', Add</i>	7.01	
<i>For >100' To 250', Add</i>	3.25	
<i>For >1,000', Deduct</i>	-1.01	
07 71 23 00-0073 LF 5", 20 Ounce, Half Round Copper Gutter	30.65	5.41
<i>For Up To 100', Add</i>	4.40	
<i>For >100' To 250', Add</i>	1.98	
<i>For >1,000', Deduct</i>	-0.89	
07 71 23 00-0074 LF 6", 20 Ounce, Half Round Copper Gutter	37.68	5.70
<i>For Up To 100', Add</i>	5.17	
<i>For >100' To 250', Add</i>	2.35	
<i>For >1,000', Deduct</i>	-0.94	
07 71 23 00-0075 LF 7", 20 Ounce, Half Round Copper Gutter	57.70	5.99
<i>For Up To 100', Add</i>	7.28	
<i>For >100' To 250', Add</i>	3.39	
<i>For >1,000', Deduct</i>	-1.01	
07 71 23 00-0076 LF 8", 20 Ounce, Half Round Copper Gutter	65.50	6.72
<i>For Up To 100', Add</i>	8.22	
<i>For >100' To 250', Add</i>	3.83	
<i>For >1,000', Deduct</i>	-1.11	
07 71 23 00-0077 Box Style Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0078 LF 5", 16 Ounce, Box Style Copper Gutter	30.80	6.13
<i>For Up To 100', Add</i>	4.61	
<i>For >100' To 250', Add</i>	2.05	
<i>For >1,000', Deduct</i>	-1.02	
07 71 23 00-0079 LF 6", 16 Ounce, Box Style Copper Gutter	33.14	6.72
<i>For Up To 100', Add</i>	4.98	
<i>For >100' To 250', Add</i>	2.21	
<i>For >1,000', Deduct</i>	-1.11	
07 71 23 00-0080 LF 7", 16 Ounce, Box Style Copper Gutter	40.02	7.16
<i>For Up To 100', Add</i>	5.78	
<i>For >100' To 250', Add</i>	2.59	
<i>For >1,000', Deduct</i>	-1.18	
07 71 23 00-0081 LF 8", 16 Ounce, Box Style Copper Gutter	40.92	7.60
<i>For Up To 100', Add</i>	5.98	
<i>For >100' To 250', Add</i>	2.67	
<i>For >1,000', Deduct</i>	-1.26	
07 71 23 00-0082 LF 5", 20 Ounce, Box Style Copper Gutter	34.93	6.13
<i>For Up To 100', Add</i>	5.03	
<i>For >100' To 250', Add</i>	2.26	
<i>For >1,000', Deduct</i>	-1.02	
07 71 23 00-0083 LF 6", 20 Ounce, Box Style Copper Gutter	37.27	6.72
<i>For Up To 100', Add</i>	5.39	
<i>For >100' To 250', Add</i>	2.42	
<i>For >1,000', Deduct</i>	-1.11	
07 71 23 00-0084 LF 7", 20 Ounce, Box Style Copper Gutter	44.15	7.16
<i>For Up To 100', Add</i>	6.19	
<i>For >100' To 250', Add</i>	2.80	
<i>For >1,000', Deduct</i>	-1.18	
07 71 23 00-0085 LF 8", 20 Ounce, Box Style Copper Gutter	45.05	7.60
<i>For Up To 100', Add</i>	6.39	
<i>For >100' To 250', Add</i>	2.88	
<i>For >1,000', Deduct</i>	-1.26	
07 71 23 00-0086 Copper Gutter End Caps (07 71 23 00-0059)		
07 71 23 00-0087 K-Style, Copper Gutter End Caps (07 71 23 00-0086)		
07 71 23 00-0088 EA 4", K-Style Copper Gutter End Cap	7.50	
07 71 23 00-0089 EA 5", K-Style Copper Gutter End Cap	8.01	
07 71 23 00-0090 EA 6", K-Style Copper Gutter End Cap	8.51	
07 71 23 00-0091 EA 7", K-Style Copper Gutter End Cap	22.04	
07 71 23 00-0092 EA 8", K-Style Copper Gutter End Cap	26.79	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 71 23 00-0093	Half Round, Copper Gutter End Caps (07 71 23 00-0086)		
07 71 23 00-0094	EA 4", Half Round Copper Gutter End Cap	9.00	
07 71 23 00-0095	EA 5", Half Round Copper Gutter End Cap	10.07	
07 71 23 00-0096	EA 6", Half Round Copper Gutter End Cap	15.02	
07 71 23 00-0097	EA 7", Half Round Copper Gutter End Cap	44.49	
07 71 23 00-0098	EA 8", Half Round Copper Gutter End Cap	52.49	
07 71 23 00-0099	Box Style, Copper Gutter End Caps (07 71 23 00-0086)		
07 71 23 00-0100	EA 5", Box Style Copper Gutter End Cap	16.97	
07 71 23 00-0101	EA 6", Box Style Copper Gutter End Cap	17.80	
07 71 23 00-0102	EA 7", Box Style Copper Gutter End Cap	18.62	
07 71 23 00-0103	EA 8", Box Style Copper Gutter End Cap	20.27	
07 71 23 00-0104	Copper Gutter Miters (07 71 23 00-0059)		
	Note: Inside or outside miters.		
07 71 23 00-0105	K-Style, Copper Gutter Miters (07 71 23 00-0104)		
07 71 23 00-0106	EA 4", K-Style Copper Gutter Miter	47.63	
07 71 23 00-0107	EA 5", K-Style Copper Gutter Miter	53.86	
07 71 23 00-0108	EA 6", K-Style Copper Gutter Miter	76.88	
07 71 23 00-0109	EA 7", K-Style Copper Gutter Miter	108.10	
07 71 23 00-0110	EA 8", K-Style Copper Gutter Miter	126.61	
07 71 23 00-0111	Half Round, Copper Gutter Miters (07 71 23 00-0104)		
07 71 23 00-0112	EA 4", Half Round Copper Gutter Miter	73.46	
07 71 23 00-0113	EA 5", Half Round Copper Gutter Miter	68.18	
07 71 23 00-0114	EA 6", Half Round Copper Gutter Miter	97.58	
07 71 23 00-0115	EA 7", Half Round Copper Gutter Miter	116.14	
07 71 23 00-0116	EA 8", Half Round Copper Gutter Miter	137.02	
07 71 23 00-0117	Box Style, Copper Gutter Miters (07 71 23 00-0104)		
07 71 23 00-0118	EA 5", 16 Ounce Box Style Copper Gutter Miter	80.75	
07 71 23 00-0119	EA 6", 16 Ounce Box Style Copper Gutter Miter	83.42	
07 71 23 00-0120	EA 7", 16 Ounce Box Style Copper Gutter Miter	91.05	
07 71 23 00-0121	EA 8", 16 Ounce Box Style Copper Gutter Miter	92.98	
07 71 23 00-0122	EA 5", 20 Ounce Box Style Copper Gutter Miter	89.01	
07 71 23 00-0123	EA 6", 20 Ounce Box Style Copper Gutter Miter	91.68	
07 71 23 00-0124	EA 7", 20 Ounce Box Style Copper Gutter Miter	99.31	
07 71 23 00-0125	EA 8", 20 Ounce Box Style Copper Gutter Miter	108.74	
07 71 23 00-0126	Copper Gutter Wire Strainers (07 71 23 00-0059)		
07 71 23 00-0127	EA 2" Diameter, Round Copper Wire Strainer	21.10	3.65
07 71 23 00-0128	EA 3" Diameter, Round Copper Wire Strainer	25.54	3.65
07 71 23 00-0129	EA 4" Diameter, Round Copper Wire Strainer	40.01	3.65
07 71 23 00-0130	EA 5" Diameter, Round Copper Wire Strainer	52.61	3.65
07 71 23 00-0131	EA 6" Diameter, Round Copper Wire Strainer	63.17	3.65
07 71 23 00-0132	Copper Downspouts (07 71 23 00-0059)		
	Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0133	Round Copper Downspouts (07 71 23 00-0132)		
07 71 23 00-0134	LF 2" Diameter, 16 Ounce, Round Copper Downspout	29.99	3.51
	For Up To 100', Add	3.57	
	For >100 To 250', Add	1.69	
	For >1,000', Deduct	-0.38	
07 71 23 00-0135	LF 3" Diameter, 16 Ounce, Round Copper Downspout	21.05	3.51
	For Up To 100', Add	2.68	
	For >100 To 250', Add	1.24	
	For >1,000', Deduct	-0.38	
07 71 23 00-0136	LF 4" Diameter, 16 Ounce, Round Copper Downspout	26.40	3.51
	For Up To 100', Add	3.21	
	For >100 To 250', Add	1.51	
	For >1,000', Deduct	-0.38	
07 71 23 00-0137	LF 5" Diameter, 16 Ounce, Round Copper Downspout	41.86	3.51
	For Up To 100', Add	4.76	
	For >100 To 250', Add	2.28	
	For >1,000', Deduct	-0.38	
07 71 23 00-0138	LF 6" Diameter, 16 Ounce, Round Copper Downspout	53.67	3.51
	For Up To 100', Add	5.94	
	For >100 To 250', Add	2.87	
	For >1,000', Deduct	-0.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0139 LF 3" Diameter, 20 Ounce, Round Copper Downspout	28.29	3.51
<i>For Up To 100', Add</i>	3.40	
<i>For >100 To 250', Add</i>	1.60	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0140 LF 4" Diameter, 20 Ounce, Round Copper Downspout	36.55	3.51
<i>For Up To 100', Add</i>	4.23	
<i>For >100 To 250', Add</i>	2.02	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0141 LF 5" Diameter, 20 Ounce, Round Copper Downspout	55.28	3.51
<i>For Up To 100', Add</i>	6.10	
<i>For >100 To 250', Add</i>	2.95	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0142 Square Copper Downspouts (07 71 23 00-0132)		
07 71 23 00-0143 LF 3" Diameter, 16 Ounce, Square Copper Downspout	14.75	3.51
<i>For Up To 100', Add</i>	2.05	
<i>For >100 To 250', Add</i>	0.93	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0144 LF 4" Diameter, 16 Ounce, Square Copper Downspout	18.29	3.51
<i>For Up To 100', Add</i>	2.40	
<i>For >100 To 250', Add</i>	1.10	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0145 LF 5" Diameter, 16 Ounce, Square Copper Downspout	25.96	3.51
<i>For Up To 100', Add</i>	3.17	
<i>For >100 To 250', Add</i>	1.49	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0146 LF 3" Diameter, 20 Ounce, Square Copper Downspout	16.94	3.51
<i>For Up To 100', Add</i>	2.26	
<i>For >100 To 250', Add</i>	1.04	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0147 LF 4" Diameter, 20 Ounce, Square Copper Downspout	21.37	3.51
<i>For Up To 100', Add</i>	2.71	
<i>For >100 To 250', Add</i>	1.26	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0148 LF 5" Diameter, 20 Ounce, Square Copper Downspout	30.46	3.51
<i>For Up To 100', Add</i>	3.62	
<i>For >100 To 250', Add</i>	1.71	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0149 Rectangular Copper Downspouts (07 71 23 00-0132)		
07 71 23 00-0150 LF 2" x 3", 16 Ounce, Rectangular Copper Downspout	21.60	3.51
<i>For Up To 100', Add</i>	2.73	
<i>For >100 To 250', Add</i>	1.27	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0151 LF 3" x 4", 16 Ounce, Rectangular Copper Downspout	27.18	3.51
<i>For Up To 100', Add</i>	3.29	
<i>For >100 To 250', Add</i>	1.55	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0152 LF 4" x 5", 16 Ounce, Rectangular Copper Downspout	38.44	3.51
<i>For Up To 100', Add</i>	4.41	
<i>For >100 To 250', Add</i>	2.11	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0153 LF 2" x 3", 20 Ounce, Rectangular Copper Downspout	25.07	3.51
<i>For Up To 100', Add</i>	3.08	
<i>For >100 To 250', Add</i>	1.44	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0154 LF 3" x 4", 20 Ounce, Rectangular Copper Downspout	31.99	3.51
<i>For Up To 100', Add</i>	3.77	
<i>For >100 To 250', Add</i>	1.79	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0155 LF 4" x 5", 20 Ounce, Rectangular Copper Downspout	45.69	3.51
<i>For Up To 100', Add</i>	5.14	
<i>For >100 To 250', Add</i>	2.47	
<i>For >1,000', Deduct</i>	-0.38	
07 71 23 00-0156 Copper Devices And Accessories (07 71 23 00-0059)		
07 71 23 00-0157 EA Thru-Wall Copper Scupper Outlet.....	234.00	25.47
07 71 23 00-0158 EA Copper Leader/Conductor Head.....	340.43	28.31
07 71 23 00-0159 EA Copper Eave Box.....	159.77	21.92
07 71 23 00-0160 Galvanized Steel Gutters And Downspouts (07 71 23)		
07 71 23 00-0161 Galvanized Steel Gutters (07 71 23 00-0160)		
Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0162 K-Style Galvanized Steel Gutters (07 71 23 00-0161)		

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0163 LF 5", 26 Gauge, K-Style Galvanized Steel Gutter	14.52	5.41
For Up To 100', Add	2.79	
For >100' To 250', Add	1.17	
For >1,000', Deduct	-0.89	
For Kynar 500® Finish, Add	2.52	
For 24 Gauge, Add	1.57	
For 22 Gauge, Add	3.09	
07 71 23 00-0164 LF 6", 26 Gauge, K-Style Galvanized Steel Gutter	16.67	5.70
For Up To 100', Add	3.07	
For >100' To 250', Add	1.30	
For >1,000', Deduct	-0.94	
For Kynar 500® Finish, Add	3.29	
For 24 Gauge, Add	2.05	
For 22 Gauge, Add	4.03	
07 71 23 00-0165 LF 7", 26 Gauge, K-Style Galvanized Steel Gutter	32.60	5.99
For Up To 100', Add	4.77	
For >100' To 250', Add	2.13	
For >1,000', Deduct	-1.01	
For Kynar 500® Finish, Add	10.13	
For 24 Gauge, Add	6.31	
For 22 Gauge, Add	12.39	
07 71 23 00-0166 LF 8", 26 Gauge, K-Style Galvanized Steel Gutter	34.48	6.72
For Up To 100', Add	5.11	
For >100' To 250', Add	2.28	
For >1,000', Deduct	-1.11	
For Kynar 500® Finish, Add	10.52	
For 24 Gauge, Add	6.55	
For 22 Gauge, Add	12.86	
07 71 23 00-0167 Half Round Galvanized Steel Gutters (07 71 23 00-0161)		
07 71 23 00-0168 LF 5", 26 Gauge, Half Round Galvanized Steel Gutter	20.31	5.41
For Up To 100', Add	3.37	
For >100' To 250', Add	1.46	
For >1,000', Deduct	-0.89	
For Kynar 500® Finish, Add	5.13	
For 24 Gauge, Add	3.19	
For 22 Gauge, Add	6.27	
07 71 23 00-0169 LF 6", 26 Gauge, Half Round Galvanized Steel Gutter	25.20	5.70
For Up To 100', Add	3.92	
For >100' To 250', Add	1.73	
For >1,000', Deduct	-0.94	
For Kynar 500® Finish, Add	7.13	
For 24 Gauge, Add	4.44	
For 22 Gauge, Add	8.72	
07 71 23 00-0170 LF 7", 26 Gauge, Half Round Galvanized Steel Gutter	60.57	5.99
For Up To 100', Add	7.57	
For >100' To 250', Add	3.53	
For >1,000', Deduct	-1.01	
For Kynar 500® Finish, Add	22.72	
For 24 Gauge, Add	14.14	
For 22 Gauge, Add	27.77	
07 71 23 00-0171 LF 8", 26 Gauge, Half Round Galvanized Steel Gutter	64.69	6.72
For Up To 100', Add	8.13	
For >100' To 250', Add	3.79	
For >1,000', Deduct	-1.11	
For Kynar 500® Finish, Add	24.12	
For 24 Gauge, Add	15.01	
For 22 Gauge, Add	29.47	
07 71 23 00-0172 Box Style Galvanized Steel Gutters (07 71 23 00-0161)		
07 71 23 00-0173 LF 5", 24 Gauge, Box Style Galvanized Steel Gutter	24.21	6.13
For Up To 100', Add	3.96	
For >100' To 250', Add	1.72	
For >1,000', Deduct	-1.02	
For Kynar 500® Finish, Add	6.29	
For 22 Gauge, Add	3.08	
07 71 23 00-0174 LF 6", 24 Gauge, Box Style Galvanized Steel Gutter	28.22	6.72
For Up To 100', Add	4.49	
For >100' To 250', Add	1.97	
For >1,000', Deduct	-1.11	
For Kynar 500® Finish, Add	7.70	
For 22 Gauge, Add	3.77	
07 71 23 00-0175 LF 7", 24 Gauge, Box Style Galvanized Steel Gutter	34.83	5.99
For Up To 100', Add	5.00	
For >100' To 250', Add	2.25	
For >1,000', Deduct	-1.01	
For Kynar 500® Finish, Add	11.14	
For 22 Gauge, Add	5.45	
07 71 23 00-0176 LF 8", 24 Gauge, Box Style Galvanized Steel Gutter	38.98	7.60
For Up To 100', Add	5.78	
For >100' To 250', Add	2.58	
For >1,000', Deduct	-1.26	
For Kynar 500® Finish, Add	11.88	
For 22 Gauge, Add	5.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0177 Galvanized Steel Gutter End Caps (07 71 23 00-0160)		
07 71 23 00-0178 K-Style, Galvanized Steel Gutter End Caps (07 71 23 00-0177)		
07 71 23 00-0179 EA 5", K-Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	6.29 1.51	
07 71 23 00-0180 EA 6", K-Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	7.17 1.91	
07 71 23 00-0181 EA 7", K-Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	15.02 5.44	
07 71 23 00-0182 EA 8", K-Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	21.57 8.39	
07 71 23 00-0183 Half Round, Galvanized Steel Gutter End Caps (07 71 23 00-0177)		
07 71 23 00-0184 EA 5", Half Round Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	7.95 2.26	
07 71 23 00-0185 EA 6", Half Round Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	9.08 2.77	
07 71 23 00-0186 EA 7", Half Round Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	16.52 6.12	
07 71 23 00-0187 EA 8", Half Round Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	22.16 8.65	
07 71 23 00-0188 Box Style, Galvanized Steel Gutter End Caps (07 71 23 00-0177)		
07 71 23 00-0189 EA 5", Box Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	13.89 4.93	
07 71 23 00-0190 EA 6", Box Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	16.63 6.17	
07 71 23 00-0191 EA 7", Box Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	18.57 7.04	
07 71 23 00-0192 EA 8", Box Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	24.72 9.81	
07 71 23 00-0193 Galvanized Steel Gutter Miters (07 71 23 00-0160)		
Note: Inside or outside miters.		
07 71 23 00-0194 K-Style, Galvanized Steel Gutter Miters (07 71 23 00-0193)		
07 71 23 00-0195 EA 5", K-Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	37.53 10.25	
07 71 23 00-0196 EA 6", K-Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	59.34 19.60	
07 71 23 00-0197 EA 7", K-Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	93.41 34.47	
07 71 23 00-0198 EA 8", K-Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	104.83 39.09	
07 71 23 00-0199 Half Round, Galvanized Steel Gutter Miters (07 71 23 00-0193)		
07 71 23 00-0200 EA 5", Half Round Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	50.40 16.04	
07 71 23 00-0201 EA 6", Half Round Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	56.49 18.32	
07 71 23 00-0202 EA 7", Half Round Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	155.25 62.30	
07 71 23 00-0203 EA 8", Half Round Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	164.11 65.76	
07 71 23 00-0204 Box Style, Galvanized Steel Gutter Miters (07 71 23 00-0193)		
07 71 23 00-0205 EA 5", Box Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	47.82 14.88	
07 71 23 00-0206 EA 6", Box Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	76.38 27.27	
07 71 23 00-0207 EA 7", Box Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	98.54 36.78	
07 71 23 00-0208 EA 8", Box Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	104.83 39.09	
07 71 23 00-0209 Galvanized Steel Gutter Wire Strainers (07 71 23 00-0160)		
07 71 23 00-0210 EA 3" Diameter, Round Galvanized Steel Wire Strainer <i>For Kynar 500® Finish, Add</i>	14.71 3.20	3.65
07 71 23 00-0211 EA 4" Diameter, Round Galvanized Steel Wire Strainer <i>For Kynar 500® Finish, Add</i>	20.76 5.92	3.65
07 71 23 00-0212 Galvanized Steel Downspouts (07 71 23 00-0160)		
Note: Includes elbows, hangers and fasteners.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0213			Round Galvanized Steel Downspouts (07 71 23 00-0212)		
07 71 23 00-0214	LF		3" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....	7.89	3.51
			For Up To 100', Add	1.36	
			For >100 To 250', Add	0.58	
			For >1,000', Deduct	-0.38	
			For Kynar 500® Finish, Add	1.84	
			For 24 Gauge, Add	1.15	
			For 22 Gauge, Add	2.25	
07 71 23 00-0215	LF		4" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....	9.65	3.51
			For Up To 100', Add	1.54	
			For >100 To 250', Add	0.67	
			For >1,000', Deduct	-0.38	
			For Kynar 500® Finish, Add	2.63	
			For 24 Gauge, Add	1.64	
			For 22 Gauge, Add	3.22	
07 71 23 00-0216	LF		5" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....	12.89	3.51
			For Up To 100', Add	1.86	
			For >100 To 250', Add	0.83	
			For >1,000', Deduct	-0.38	
			For Kynar 500® Finish, Add	4.09	
			For 24 Gauge, Add	2.55	
			For 22 Gauge, Add	5.00	
07 71 23 00-0217	LF		6" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....	27.85	3.51
			For Up To 100', Add	3.36	
			For >100 To 250', Add	1.58	
			For >1,000', Deduct	-0.38	
			For Kynar 500® Finish, Add	10.82	
			For 24 Gauge, Add	6.73	
			For 22 Gauge, Add	13.23	
07 71 23 00-0218			Square Galvanized Steel Downspouts (07 71 23 00-0212)		
07 71 23 00-0219	LF		4" x 4", 26 Gauge, Square Galvanized Steel Downspout	8.87	3.51
			For Up To 100', Add	1.46	
			For >100 To 250', Add	0.63	
			For >1,000', Deduct	-0.38	
			For Kynar 500® Finish, Add	2.28	
			For 24 Gauge, Add	1.42	
			For 22 Gauge, Add	2.79	
07 71 23 00-0220	LF		5" x 5", 26 Gauge, Square Galvanized Steel Downspout	11.18	3.51
			For Up To 100', Add	1.69	
			For >100 To 250', Add	0.75	
			For >1,000', Deduct	-0.38	
			For Kynar 500® Finish, Add	3.32	
			For 24 Gauge, Add	2.07	
			For 22 Gauge, Add	4.06	
07 71 23 00-0221			Rectangular Galvanized Steel Downspouts (07 71 23 00-0212)		
07 71 23 00-0222	LF		2" x 3", 26 Gauge, Rectangular Galvanized Steel Downspout.....	8.03	3.51
			For Up To 100', Add	1.37	
			For >100 To 250', Add	0.59	
			For >1,000', Deduct	-0.38	
			For Kynar 500® Finish, Add	1.90	
			For 24 Gauge, Add	1.18	
			For 22 Gauge, Add	2.33	
07 71 23 00-0223	LF		3" x 4", 26 Gauge, Rectangular Galvanized Steel Downspout.....	10.05	3.51
			For Up To 100', Add	1.58	
			For >100 To 250', Add	0.69	
			For >1,000', Deduct	-0.38	
			For Kynar 500® Finish, Add	2.81	
			For 24 Gauge, Add	1.75	
			For 22 Gauge, Add	3.44	
07 71 23 00-0224	LF		4" x 5", 26 Gauge, Rectangular Galvanized Steel Downspout.....	18.09	3.51
			For Up To 100', Add	2.38	
			For >100 To 250', Add	1.09	
			For >1,000', Deduct	-0.38	
			For Kynar 500® Finish, Add	6.43	
			For 24 Gauge, Add	4.00	
			For 22 Gauge, Add	7.86	
07 71 23 00-0225			Galvanized Steel Devices (07 71 23 00-0160)		
07 71 23 00-0226	EA		Galvanized Steel Leader/Conductor Head.....	318.18	28.31
			For Kynar 500® Finish, Add	117.71	
07 71 23 00-0227	EA		Thru-Wall Galvanized Steel Scupper Outlet	178.58	25.47
			For Kynar 500® Finish, Add	42.15	
07 71 23 00-0228			Stainless Steel Gutters And Downspouts (07 71 23)		
			Note: AISI type 304 stainless steel.		
07 71 23 00-0229			Stainless Steel Gutters (07 71 23 00-0228)		
			Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0230 K-Style, Stainless Steel Gutters <small>(07 71 23 00-0229)</small>		
07 71 23 00-0231 LF 5", 26 Gauge, K-Style Stainless Steel Gutter.....	34.69	5.41
For Up To 100', Add	4.81	
For >100' To 250', Add	2.18	
For >1,000', Deduct	-0.89	
For 316 Stainless Steel, Add	9.80	
For 24 Gauge, Add	8.51	
For 22 Gauge, Add	17.01	
For 20 Gauge, Add	25.52	
07 71 23 00-0232 LF 6", 26 Gauge, K-Style Stainless Steel Gutter.....	41.58	5.70
For Up To 100', Add	5.56	
For >100' To 250', Add	2.55	
For >1,000', Deduct	-0.94	
For 316 Stainless Steel, Add	12.25	
For 24 Gauge, Add	10.64	
For 22 Gauge, Add	21.27	
For 20 Gauge, Add	31.91	
07 71 23 00-0233 Half Round, Stainless Steel Gutters <small>(07 71 23 00-0229)</small>		
07 71 23 00-0234 LF 5", 26 Gauge, Half Round Stainless Steel Gutter	47.94	5.41
For Up To 100', Add	6.13	
For >100' To 250', Add	2.84	
For >1,000', Deduct	-0.89	
For 316 Stainless Steel, Add	14.83	
For 24 Gauge, Add	12.88	
For 22 Gauge, Add	25.76	
For 20 Gauge, Add	38.64	
07 71 23 00-0235 LF 6", 26 Gauge, Half Round Stainless Steel Gutter	58.06	5.70
For Up To 100', Add	7.21	
For >100' To 250', Add	3.37	
For >1,000', Deduct	-0.94	
For 316 Stainless Steel, Add	18.51	
For 24 Gauge, Add	16.07	
For 22 Gauge, Add	32.15	
For 20 Gauge, Add	48.22	
07 71 23 00-0236 Box Style, Stainless Steel Gutters <small>(07 71 23 00-0229)</small>		
07 71 23 00-0237 LF 5", 26 Gauge, Box Style Stainless Steel Gutter	46.99	6.13
For Up To 100', Add	6.23	
For >100' To 250', Add	2.86	
For >1,000', Deduct	-1.02	
For 316 Stainless Steel, Add	13.97	
For 24 Gauge, Add	12.13	
For 22 Gauge, Add	24.26	
For 20 Gauge, Add	36.39	
For 18 Gauge, Add	61.02	
For Seamless Gutter, Add	-0.30	
07 71 23 00-0238 LF 6", 26 Gauge, Box Style Stainless Steel Gutter	57.28	6.72
For Up To 100', Add	7.39	
For >100' To 250', Add	3.42	
For >1,000', Deduct	-1.11	
For 316 Stainless Steel, Add	17.55	
For 24 Gauge, Add	15.24	
For 22 Gauge, Add	30.48	
For 20 Gauge, Add	45.72	
For 18 Gauge, Add	76.66	
For Seamless Gutter, Add	-0.64	
07 71 23 00-0239 LF 7", 26 Gauge, Box Style Stainless Steel Gutter	67.64	7.16
For Up To 100', Add	8.54	
For >100' To 250', Add	3.97	
For >1,000', Deduct	-1.18	
For 316 Stainless Steel, Add	21.21	
For 24 Gauge, Add	18.42	
For 22 Gauge, Add	36.83	
For 20 Gauge, Add	55.25	
For 18 Gauge, Add	92.64	
For Seamless Gutter, Add	-1.02	
07 71 23 00-0240 LF 8", 26 Gauge, Box Style Stainless Steel Gutter	73.55	7.60
For Up To 100', Add	9.24	
For >100' To 250', Add	4.31	
For >1,000', Deduct	-1.26	
For 316 Stainless Steel, Add	23.17	
For 24 Gauge, Add	20.12	
For 22 Gauge, Add	40.25	
For 20 Gauge, Add	60.37	
For 18 Gauge, Add	101.23	
For Seamless Gutter, Add	-1.16	
07 71 23 00-0241 Stainless Steel Gutter End Caps <small>(07 71 23 00-0228)</small>		
07 71 23 00-0242 K-Style, Stainless Steel Gutter End Caps <small>(07 71 23 00-0241)</small>		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0243 EA 5", K-Style Stainless Steel Gutter End Cap <i>For 316 Stainless Steel, Add</i>	10.99 3.06	
07 71 23 00-0244 EA 6", K-Style Stainless Steel Gutter End Cap <i>For 316 Stainless Steel, Add</i>	12.61 3.68	
07 71 23 00-0245 Half Round, Stainless Steel Gutter End Caps (07 71 23 00-0241)		
07 71 23 00-0246 EA 5", Half Round Stainless Steel Gutter End Cap <i>For 316 Stainless Steel, Add</i>	13.01 3.83	
07 71 23 00-0247 EA 6", Half Round Stainless Steel Gutter End Cap <i>For 316 Stainless Steel, Add</i>	15.03 4.60	
07 71 23 00-0248 Box Style, Stainless Steel Gutter End Caps (07 71 23 00-0241)		
07 71 23 00-0249 EA 5", Box Style Stainless Steel Gutter End Cap <i>For 316 Stainless Steel, Add</i>	13.73 3.83	
07 71 23 00-0250 EA 6", Box Style Stainless Steel Gutter End Cap <i>For 316 Stainless Steel, Add</i>	15.75 4.60	
07 71 23 00-0251 EA 7", Box Style Stainless Steel Gutter End Cap <i>For 316 Stainless Steel, Add</i>	16.47 4.96	
07 71 23 00-0252 EA 8", Box Style Stainless Steel Gutter End Cap <i>For 316 Stainless Steel, Add</i>	19.98 6.11	
07 71 23 00-0253 Stainless Steel Gutter Miters (07 71 23 00-0228) Note: Inside or outside box miters.		
07 71 23 00-0254 K-Style, Stainless Steel Gutter Miters (07 71 23 00-0253)		
07 71 23 00-0255 EA 5", K-Style Stainless Steel Gutter Miter <i>For 316 Stainless Steel, Add</i>	56.42 15.83	
07 71 23 00-0256 EA 6", K-Style Stainless Steel Gutter Miter <i>For 316 Stainless Steel, Add</i>	89.70 28.09	
07 71 23 00-0257 Half Round, Stainless Steel Gutter Miters (07 71 23 00-0253)		
07 71 23 00-0258 EA 5", Half Round Stainless Steel Gutter Miter <i>For 316 Stainless Steel, Add</i>	137.06 46.47	
07 71 23 00-0259 EA 6", Half Round Stainless Steel Gutter Miter <i>For 316 Stainless Steel, Add</i>	167.59 57.69	
07 71 23 00-0260 Box-Style, Stainless Steel Gutter Miters (07 71 23 00-0253)		
07 71 23 00-0261 EA 5", Box-Style Stainless Steel Gutter Miter <i>For 316 Stainless Steel, Add</i>	64.75 19.00	
07 71 23 00-0262 EA 6", Box-Style Stainless Steel Gutter Miter <i>For 316 Stainless Steel, Add</i>	104.48 33.71	
07 71 23 00-0263 EA 7", Box-Style Stainless Steel Gutter Miter <i>For 316 Stainless Steel, Add</i>	120.28 39.32	
07 71 23 00-0264 EA 8", Box-Style Stainless Steel Gutter Miter <i>For 316 Stainless Steel, Add</i>	136.24 44.94	
07 71 23 00-0265 Stainless Steel Gutter Wire Strainers (07 71 23 00-0228)		
07 71 23 00-0266 EA 3" Diameter, Round Stainless Steel Wire Strainer	45.81	3.65
07 71 23 00-0267 EA 4" Diameter, Round Stainless Steel Wire Strainer	46.86	3.65
07 71 23 00-0268 Stainless Steel Downspouts (07 71 23 00-0228) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0269 Round Stainless Steel Downspouts (07 71 23 00-0268)		
07 71 23 00-0270 LF 3" Diameter, 26 Gauge, Round Stainless Steel Downspout <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i> <i>For 20 Gauge, Add</i>	20.46 2.62 1.21 -0.38 6.33 5.50 11.00 16.49	3.51
07 71 23 00-0271 LF 4" Diameter, 26 Gauge, Round Stainless Steel Downspout <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i> <i>For 20 Gauge, Add</i>	26.92 3.26 1.54 -0.38 8.79 7.63 15.26 22.89	3.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0272 LF 5" Diameter, 26 Gauge, Round Stainless Steel Downspout	39.12	3.51
<i>For Up To 100', Add</i>	4.48	
<i>For >100 To 250', Add</i>	2.15	
<i>For >1,000', Deduct</i>	-0.38	
<i>For 316 Stainless Steel, Add</i>	13.42	
<i>For 24 Gauge, Add</i>	11.66	
<i>For 22 Gauge, Add</i>	23.31	
<i>For 20 Gauge, Add</i>	34.97	
07 71 23 00-0273 Rectangular Stainless Steel Downspouts (07 71 23 00-0268)		
07 71 23 00-0274 LF 2" x 3", 26 Gauge, Rectangular Stainless Steel Downspout	20.93	3.51
<i>For Up To 100', Add</i>	2.66	
<i>For >100 To 250', Add</i>	1.24	
<i>For >1,000', Deduct</i>	-0.38	
<i>For 316 Stainless Steel, Add</i>	6.51	
<i>For 24 Gauge, Add</i>	5.65	
<i>For 22 Gauge, Add</i>	11.31	
<i>For 20 Gauge, Add</i>	16.96	
<i>For 18 Gauge, Add</i>	28.44	
07 71 23 00-0275 LF 3" x 4", 26 Gauge, Rectangular Stainless Steel Downspout	27.88	3.51
<i>For Up To 100', Add</i>	3.36	
<i>For >100 To 250', Add</i>	1.58	
<i>For >1,000', Deduct</i>	-0.38	
<i>For 316 Stainless Steel, Add</i>	9.15	
<i>For 24 Gauge, Add</i>	7.95	
<i>For 22 Gauge, Add</i>	15.89	
<i>For 20 Gauge, Add</i>	23.84	
<i>For 18 Gauge, Add</i>	39.97	
07 71 23 00-0276 LF 4" x 5", 26 Gauge, Rectangular Stainless Steel Downspout	36.02	3.51
<i>For Up To 100', Add</i>	4.17	
<i>For >100 To 250', Add</i>	1.99	
<i>For >1,000', Deduct</i>	-0.38	
<i>For 316 Stainless Steel, Add</i>	12.24	
<i>For 24 Gauge, Add</i>	10.63	
<i>For 22 Gauge, Add</i>	21.27	
<i>For 20 Gauge, Add</i>	31.90	
<i>For 18 Gauge, Add</i>	53.49	
07 71 23 00-0277 Stainless Steel Devices (07 71 23 00-0228)		
07 71 23 00-0278 EA Thru-Wall Stainless Steel Scupper Outlet	238.21	32.88
<i>For 316 Stainless Steel, Add</i>	48.88	
07 71 23 00-0279 EA Stainless Steel Leader/Conductor Head	439.26	32.88
<i>For 316 Stainless Steel, Add</i>	139.16	
07 71 23 00-0280 Vinyl Gutters And Downspouts (07 71 23)		
07 71 23 00-0281 Vinyl Gutters (07 71 23 00-0280)		
Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0282 K-Style Vinyl Gutters (07 71 23 00-0281)		
07 71 23 00-0283 LF 4", K-Style Vinyl Gutter	12.51	3.65
<i>For Up To 100', Add</i>	2.16	
<i>For >100' To 250', Add</i>	0.93	
<i>For >1,000', Deduct</i>	-0.61	
07 71 23 00-0284 LF 5", K-Style Vinyl Gutter	15.81	3.65
<i>For Up To 100', Add</i>	2.49	
<i>For >100' To 250', Add</i>	1.10	
<i>For >1,000', Deduct</i>	-0.61	
07 71 23 00-0285 Half Round Vinyl Gutters (07 71 23 00-0281)		
07 71 23 00-0286 LF 4", Half Round Vinyl Gutter	12.88	3.65
<i>For Up To 100', Add</i>	2.20	
<i>For >100' To 250', Add</i>	0.95	
<i>For >1,000', Deduct</i>	-0.61	
07 71 23 00-0287 LF 5", Half Round Vinyl Gutter	13.49	3.65
<i>For Up To 100', Add</i>	2.26	
<i>For >100' To 250', Add</i>	0.98	
<i>For >1,000', Deduct</i>	-0.61	
07 71 23 00-0288 Vinyl Gutter End Caps (07 71 23 00-0280)		
07 71 23 00-0289 K-Style, Vinyl Gutter End Caps (07 71 23 00-0288)		
07 71 23 00-0290 EA 4", K-Style Vinyl Gutter End Cap	7.58	
07 71 23 00-0291 EA 5", K-Style Vinyl Gutter End Cap	10.32	
07 71 23 00-0292 Half Round, Vinyl Gutter End Caps (07 71 23 00-0288)		
07 71 23 00-0293 EA 4", Half Round Vinyl Gutter End Cap	8.60	
07 71 23 00-0294 EA 5", Half Round Vinyl Gutter End Cap	8.14	

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07 71 23 00-0295	Vinyl Gutter Miters (07 71 23 00-0280) Note: Inside or outside miters.		
07 71 23 00-0296	K-Style, Vinyl Gutter Miters (07 71 23 00-0295)		
07 71 23 00-0297	EA 4", K-Style Vinyl Gutter Miter	18.50	
07 71 23 00-0298	EA 5", K-Style Vinyl Gutter Miter	27.35	
07 71 23 00-0299	Half Round, Vinyl Gutter Miters (07 71 23 00-0295)		
07 71 23 00-0300	EA 4", Half Round Vinyl Gutter Miter	18.50	
07 71 23 00-0301	EA 5", Half Round Vinyl Gutter Miter	20.02	
07 71 23 00-0302	Vinyl Downspouts (07 71 23 00-0280) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0303	Round Vinyl Downspouts (07 71 23 00-0302)		
07 71 23 00-0304	LF 2-1/2" Diameter, Round Vinyl Downspout.....	8.18	3.51
	For Up To 100', Add	1.39	
	For >100 To 250', Add	0.60	
	For >1,000', Deduct	-0.38	
07 71 23 00-0305	LF 3" Diameter, Round Vinyl Downspout.....	8.50	3.51
	For Up To 100', Add	1.42	
	For >100 To 250', Add	0.62	
	For >1,000', Deduct	-0.38	
07 71 23 00-0306	Square Vinyl Downspouts (07 71 23 00-0302)		
07 71 23 00-0307	LF 2-1/2", Square Vinyl Downspout	8.05	3.51
	For Up To 100', Add	1.38	
	For >100 To 250', Add	0.59	
	For >1,000', Deduct	-0.38	
07 71 23 00-0308	Rectangular Vinyl Downspouts (07 71 23 00-0302)		
07 71 23 00-0309	LF 2" x 3", Rectangular Vinyl Downspout.....	10.12	3.51
	For Up To 100', Add	1.58	
	For >100 To 250', Add	0.70	
	For >1,000', Deduct	-0.38	
07 71 23 00-0310	Gutter And Downspout Boots (07 71 23)		
07 71 23 00-0311	Cast Iron Roof Drainage Downspout Boots (07 71 23 00-0310)		
07 71 23 00-0312	EA 2" x 3" x 18" Long, Cast Iron Roof Drainage Downspout Boot.....	326.12	5.26
07 71 23 00-0313	EA 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot.....	425.00	5.26
07 71 23 00-0314	EA 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot.....	507.22	5.26
07 71 23 00-0315	Cast Iron Roof Drainage Downspout Boots With Cleanouts (07 71 23 00-0310)		
07 71 23 00-0316	EA 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	563.22	5.26
07 71 23 00-0317	EA 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	687.99	5.26
07 71 23 00-0318	EA 5" x 7" x 30" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	1,248.33	5.26
07 71 23 00-0319	Wall Mounted Downspout Covers With Hinged Perforated Cover (07 71 23)		
07 71 23 00-0320	EA 3" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-03).....	1,138.41	36.58
	For Polished Brass Finish (-PB), Add	106.53	
	For Chrome Plated Finish (-CP), Add	159.79	
	For Vandal Proof (-U), Add	53.26	
07 71 23 00-0321	EA 4" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-04).....	1,162.80	48.77
	For Polished Brass Finish (-PB), Add	106.53	
	For Chrome Plated Finish (-CP), Add	159.79	
	For Vandal Proof (-U), Add	53.26	
07 71 23 00-0322	EA 6" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-06).....	1,245.34	60.14
	For Polished Brass Finish (-PB), Add	112.51	
	For Chrome Plated Finish (-CP), Add	168.76	
	For Vandal Proof (-U), Add	56.25	
07 71 23 00-0323	EA 8" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-08).....	1,331.07	75.94
	For Polished Brass Finish (-PB), Add	117.92	
	For Chrome Plated Finish (-CP), Add	176.88	
	For Vandal Proof (-U), Add	58.96	
07 71 23 00-0324	EA 10" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-10).....	1,434.88	93.55
	For Polished Brass Finish (-PB), Add	124.78	
	For Chrome Plated Finish (-CP), Add	187.17	
	For Vandal Proof (-U), Add	62.39	
07 71 23 00-0325	EA 12" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-12).....	1,584.78	130.60
	For Polished Brass Finish (-PB), Add	132.36	
	For Chrome Plated Finish (-CP), Add	198.54	
	For Vandal Proof (-U), Add	66.18	



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07 71 23 00-0326 EA 15" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-15).....	1,761.60	181.64
For Polished Brass Finish (-PB), Add	139.83	
For Chrome Plated Finish (-CP), Add	209.75	
For Vandal Proof (-U), Add	69.92	
07 71 23 00-0327 Wall Mounted Downspout Nozzle (07 71 23)		
07 71 23 00-0328 EA 3" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-03).....	303.12	36.58
For Nickel Bronze Finish (-NB), Add	160.97	
For Polished Bronze Finish (-PB), Add	126.48	
For Chrome Plated Finish (-CP), Add	204.66	
07 71 23 00-0329 EA 4" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-04).....	327.51	48.77
For Nickel Bronze Finish (-NB), Add	160.97	
For Polished Bronze Finish (-PB), Add	126.48	
For Chrome Plated Finish (-CP), Add	204.66	
07 71 23 00-0330 EA 6" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-06).....	665.80	60.14
For Nickel Bronze Finish (-NB), Add	163.66	
For Polished Bronze Finish (-PB), Add	92.74	
For Chrome Plated Finish (-CP), Add	240.03	
07 71 23 00-0331 EA 8" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-08).....	979.94	75.94
For Nickel Bronze Finish (-NB), Add	140.77	
For Polished Bronze Finish (-PB), Add	107.65	
For Chrome Plated Finish (-CP), Add	240.14	
07 71 23 00-0332 EA 10" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-10).....	1,262.15	93.55
For Nickel Bronze Finish (-NB), Add	182.76	
For Polished Bronze Finish (-PB), Add	139.76	
For Chrome Plated Finish (-CP), Add	311.76	
07 71 23 00-0333 EA 12" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-12).....	1,613.66	130.60
For Nickel Bronze Finish (-NB), Add	229.92	
For Polished Bronze Finish (-PB), Add	175.82	
For Chrome Plated Finish (-CP), Add	392.21	
07 71 23 00-0334 Leaf Guards And Cleaning (07 71 23)		
07 71 23 00-0335 LF Aluminum Mesh Gutter Leaf Guard (07 71 23).....	3.94	0.97
For Up To 100', Add	0.68	
For >100' To 250', Add	0.29	
For >1,000', Deduct	-0.19	
07 71 23 00-0336 LF Vinyl Mesh Gutter Leaf Guard.....	3.08	0.97
For Up To 100', Add	0.60	
For >100' To 250', Add	0.25	
For >1,000', Deduct	-0.19	
07 71 23 00-0337 LF 6" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire.....	12.80	1.21
For Up To 100', Add	1.65	
For >100' To 250', Add	0.76	
For >1,000', Deduct	-0.25	
07 71 23 00-0338 LF 9" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire.....	18.00	1.21
For Up To 100', Add	2.17	
For >100' To 250', Add	1.02	
For >1,000', Deduct	-0.25	
07 71 23 00-0339 LF 6" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh.....	9.76	1.21
For Up To 100', Add	1.27	
For >100' To 250', Add	0.58	
For >1,000', Deduct	-0.19	
07 71 23 00-0340 LF 9" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh.....	14.74	1.21
For Up To 100', Add	1.76	
For >100' To 250', Add	0.83	
For >1,000', Deduct	-0.19	
07 71 23 00-0341 EA Cleanout Roof Drain.....	152.89	
Note: Includes removing dome and flushing.		
07 71 23 00-0342 LF Cleanout Roof Gutters And Downspouts.....	1.81	
07 71 26 Reglets (07 71)		
07 71 26 00-0001 Counter Flashing With Reglet (07 71 26)		
Note: Includes reglet cut.		
07 71 26 00-0002 Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0003 Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)		
07 71 26 00-0004 LF 28 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet.....	16.64	5.04
07 71 26 00-0005 LF 26 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet.....	16.83	5.04
07 71 26 00-0006 LF 24 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet.....	17.14	5.04
07 71 26 00-0007 LF 22 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet.....	18.33	5.04
07 71 26 00-0008 LF 20 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet.....	19.01	5.04
07 71 26 00-0009 LF 18 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet.....	19.79	5.04
07 71 26 00-0010 KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)		
07 71 26 00-0011 LF 28 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	19.60	5.04
07 71 26 00-0012 LF 26 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	19.86	5.04
07 71 26 00-0013 LF 24 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	20.32	5.04
07 71 26 00-0014 LF 22 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	22.04	5.04

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 71 Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 26 00-0015 LF 20 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	23.03	5.04
07 71 26 00-0016 LF 18 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	24.16	5.04
07 71 26 00-0017 Aluminum Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0018 KYNAR 500® Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0019 LF 0.019" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	15.62	5.04
07 71 26 00-0020 LF 0.025" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	16.49	5.04
07 71 26 00-0021 LF 0.032" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	17.36	5.04
07 71 26 00-0022 LF 0.040" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	18.00	5.04
07 71 26 00-0023 LF 0.050" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	19.40	5.04
07 71 26 00-0024 LF 0.063" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	21.44	5.04
07 71 26 00-0025 Mill Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0026 LF 0.019" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	13.62	5.04
07 71 26 00-0027 LF 0.025" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	14.17	5.04
07 71 26 00-0028 LF 0.032" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	14.73	5.04
07 71 26 00-0029 LF 0.040" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	15.13	5.04
07 71 26 00-0030 LF 0.050" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	16.03	5.04
07 71 26 00-0031 LF 0.063" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	17.34	5.04
07 71 26 00-0032 Clear Anodized Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0033 LF 0.019" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet.....	15.21	5.04
07 71 26 00-0034 LF 0.025" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet.....	16.02	5.04
07 71 26 00-0035 LF 0.032" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet.....	16.82	5.04
07 71 26 00-0036 LF 0.040" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet.....	17.41	5.04
07 71 26 00-0037 LF 0.050" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet.....	18.71	5.04
07 71 26 00-0038 LF 0.063" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet.....	20.60	5.04
07 71 26 00-0039 Stainless Steel Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0040 Stainless Steel Counter Flashing With Reglet (07 71 26 00-0039)		
07 71 26 00-0041 LF 24 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	17.05	5.04
07 71 26 00-0042 LF 20 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	18.28	5.04
07 71 26 00-0043 Copper Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0044 Copper Counter Flashing With Reglet (07 71 26 00-0043)		
07 71 26 00-0045 LF 16 Ounce, Up To 12" Wide, Copper Counter Flashing With Reglet.....	49.25	5.04
07 72 Roof Accessories (07 70)		
07 72 13 Manufactured Curbs (07 72)		
07 72 13 00-0001 Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13)		
Note: Includes fasteners and sealants. Excludes flashing. See CSI section 07 62 13 00-0000 for flashing and trim.		
07 72 13 00-0002 Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0001)		
Note: Includes pressure treated wood nailer, 1-1/2" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction, installation clips and 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips.		
07 72 13 00-0003 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0002)		
07 72 13 00-0004 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0003)		
07 72 13 00-0005 EA 26" x 26" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	935.38	240.43
For Sloped Roofs Up To 1 In 12 Pitch, Add	63.48	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	157.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	45.48	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	88.89	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	111.63	
07 72 13 00-0006 EA 26" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	949.60	240.43
For Sloped Roofs Up To 1 In 12 Pitch, Add	64.91	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	159.87	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	55.81	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	113.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	134.37	
07 72 13 00-0007 EA 26" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,031.85	270.48
For Sloped Roofs Up To 1 In 12 Pitch, Add	69.37	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	172.56	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	68.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	140.57	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	155.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0008 EA 26" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,086.38	270.48
For Sloped Roofs Up To 1 In 12 Pitch, Add	74.83	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	183.47	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	90.96	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	183.98	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	198.45	
07 72 13 00-0009 EA 26" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,126.68	270.48
For Sloped Roofs Up To 1 In 12 Pitch, Add	78.86	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	191.53	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	120.21	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	132.61	
07 72 13 00-0010 EA 26" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,363.03	300.54
For Sloped Roofs Up To 1 In 12 Pitch, Add	98.74	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	235.04	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	150.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	243.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	283.21	
07 72 13 00-0011 EA 38" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	954.34	240.43
For Sloped Roofs Up To 1 In 12 Pitch, Add	65.38	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	160.81	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	10.85	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	93.54	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	130.75	
07 72 13 00-0012 EA 38" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,034.22	270.48
For Sloped Roofs Up To 1 In 12 Pitch, Add	69.61	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	173.03	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	86.82	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	173.64	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	208.79	
07 72 13 00-0013 EA 38" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,065.04	270.48
For Sloped Roofs Up To 1 In 12 Pitch, Add	72.69	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	179.20	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	107.49	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	198.45	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	227.39	
07 72 13 00-0014 EA 38" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,076.89	270.48
For Sloped Roofs Up To 1 In 12 Pitch, Add	73.88	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	181.57	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	19.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	118.45	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	145.32	
07 72 13 00-0015 EA 38" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,325.10	300.54
For Sloped Roofs Up To 1 In 12 Pitch, Add	94.94	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	227.45	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	24.81	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	134.37	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	175.71	
07 72 13 00-0016 EA 38" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,450.02	330.59
For Sloped Roofs Up To 1 In 12 Pitch, Add	103.68	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	248.68	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	30.39	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	156.49	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	206.10	
07 72 13 00-0017 EA 50" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,143.28	270.48
For Sloped Roofs Up To 1 In 12 Pitch, Add	80.52	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	194.65	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	111.63	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	202.59	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	225.32	
07 72 13 00-0018 EA 50" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,249.23	300.54
For Sloped Roofs Up To 1 In 12 Pitch, Add	87.36	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	212.28	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	134.37	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	219.12	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	260.47	
07 72 13 00-0019 EA 50" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,275.31	300.54
For Sloped Roofs Up To 1 In 12 Pitch, Add	89.96	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	217.50	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	159.17	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	231.53	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	301.81	
07 72 13 00-0020 EA 50" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,400.23	330.59
For Sloped Roofs Up To 1 In 12 Pitch, Add	98.70	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	238.72	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	186.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	279.07	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	345.22	
07 72 13 00-0021 EA 51" x 99" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,503.82	360.64
For Sloped Roofs Up To 1 In 12 Pitch, Add	105.30	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	255.68	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	31.94	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	147.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	199.38	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0022	EA		51" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,626.37	390.70
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	113.80	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	276.44	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	256.33	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	386.57	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	456.85	
07 72 13 00-0023	EA		62" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,275.31	300.54
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	89.96	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	217.50	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.43	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	93.64	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.20	
07 72 13 00-0024	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,374.15	330.59
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	96.09	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	233.51	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	194.32	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	295.61	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	359.69	
07 72 13 00-0025	EA		62" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,501.45	360.64
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	105.06	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	255.21	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	252.20	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	353.49	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	413.44	
07 72 13 00-0026	EA		62" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,525.16	360.64
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	107.44	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	259.95	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.83	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	139.12	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	242.48	
07 72 13 00-0027	EA		62" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,652.45	390.70
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	116.41	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	281.65	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	318.35	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	421.71	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	554.01	
07 72 13 00-0028			12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0003)</small>		
07 72 13 00-0029	EA		26" x 26" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	966.20	240.43
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	66.57	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	163.19	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	45.48	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	88.89	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	111.63	
07 72 13 00-0030	EA		26" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	973.31	240.43
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	67.28	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	164.61	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	55.81	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	113.70	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	134.37	
07 72 13 00-0031	EA		26" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,055.55	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	71.74	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	177.30	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	68.22	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	140.57	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	155.04	
07 72 13 00-0032	EA		26" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,117.20	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	77.91	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	189.63	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	90.96	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	183.98	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	198.45	
07 72 13 00-0033	EA		26" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,162.24	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	82.41	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	198.64	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	18.91	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	120.21	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	132.61	
07 72 13 00-0034	EA		26" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,391.48	300.54
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	101.58	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	240.73	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	150.91	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	243.93	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	283.21	
07 72 13 00-0035	EA		38" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	975.68	240.43
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	67.51	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	165.08	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	10.85	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	93.54	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	130.75	



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Roof and Wall Specialties and Accessories	07 70
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0036 EA 38" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,098.23	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	76.01	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	185.84	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	86.82	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	173.64	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	208.79	
07 72 13 00-0037 EA 38" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,145.65	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	80.75	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	195.32	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	107.49	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	198.45	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	227.39	
07 72 13 00-0038 EA 38" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,200.18	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	86.21	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	206.23	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.22	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	118.45	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	145.32	
07 72 13 00-0039 EA 38" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,363.03	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	98.74	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	235.04	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	24.81	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	134.37	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	175.71	
07 72 13 00-0040 EA 38" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,497.43	330.59
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	108.42	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	258.16	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	30.39	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	156.49	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	206.10	
07 72 13 00-0041 EA 50" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,171.73	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	83.36	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	200.54	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.63	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	202.59	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	225.32	
07 72 13 00-0042 EA 50" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,272.94	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	89.73	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	217.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	134.37	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	219.12	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	260.47	
07 72 13 00-0043 EA 50" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,310.87	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	93.52	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	224.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	159.17	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	231.53	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	301.81	
07 72 13 00-0044 EA 50" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,438.16	330.59
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	102.49	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	246.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	186.05	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	279.07	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	345.22	
07 72 13 00-0045 EA 51" x 99" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,548.87	360.64
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	109.81	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	264.69	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.94	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	147.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	199.38	
07 72 13 00-0046 EA 51" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,678.53	390.70
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	119.02	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	286.87	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	256.33	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	386.57	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	456.85	
07 72 13 00-0047 EA 62" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,310.87	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	93.52	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	224.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.43	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	93.64	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.20	
07 72 13 00-0048 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,412.08	330.59
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	99.88	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	241.09	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	194.32	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	295.61	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	359.69	
07 72 13 00-0049 EA 62" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,541.75	360.64
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	109.09	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	263.27	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	252.20	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	353.49	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	413.44	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0050	EA		62" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,572.57	360.64
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	112.18	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	269.43	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.83	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	139.12	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	242.48	
07 72 13 00-0051	EA		62" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,704.61	390.70
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	121.62	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	292.09	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	318.35	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	421.71	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	554.01	
07 72 13 00-0052 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0003)</small>					
07 72 13 00-0053	EA		26" x 26" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	982.79	240.43
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	68.23	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	166.50	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	45.48	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	88.89	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	111.63	
07 72 13 00-0054	EA		26" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	989.91	240.43
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	68.94	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	167.93	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	55.81	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	113.70	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	134.37	
07 72 13 00-0055	EA		26" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,067.41	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	72.93	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	179.67	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	68.22	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	140.57	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	155.04	
07 72 13 00-0056	EA		26" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,136.16	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	79.81	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	193.42	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	90.96	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	183.98	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	198.45	
07 72 13 00-0057	EA		26" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,188.32	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	85.02	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	203.85	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	18.91	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	120.21	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	132.61	
07 72 13 00-0058	EA		26" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,424.68	300.54
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	104.90	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	247.37	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	150.91	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	243.93	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	283.21	
07 72 13 00-0059	EA		38" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	989.91	240.43
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	68.94	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	167.93	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	10.85	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	93.54	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	130.75	
07 72 13 00-0060	EA		38" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,067.41	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	72.93	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	179.67	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	68.82	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	173.64	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	208.79	
07 72 13 00-0061	EA		38" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,188.32	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	85.02	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	203.85	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	107.49	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	198.45	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	227.39	
07 72 13 00-0062	EA		38" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,245.23	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	90.71	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	215.24	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.22	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	118.45	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	145.32	
07 72 13 00-0063	EA		38" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,391.48	300.54
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	101.58	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	240.73	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	24.81	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	134.37	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	175.71	



Thermal And Moisture Protection	07
Roof and Wall Specialties and Accessories	07 70
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0064 EA 38" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,528.26	330.59
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	111.50	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	264.33	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	30.39	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	156.49	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	206.10	
07 72 13 00-0065 EA 50" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,190.70	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	85.26	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	204.33	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.63	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	202.59	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	225.32	
07 72 13 00-0066 EA 50" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,228.86	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	85.32	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	208.21	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	134.37	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	219.12	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	260.47	
07 72 13 00-0067 EA 50" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,334.58	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	95.89	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	229.35	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	159.17	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	231.53	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	301.81	
07 72 13 00-0068 EA 50" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,466.61	330.59
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	105.34	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	252.00	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	186.05	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	279.07	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	345.22	
07 72 13 00-0069 EA 51" x 99" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,577.32	360.64
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	112.65	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	270.38	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.94	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	147.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	199.38	
07 72 13 00-0070 EA 51" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,711.72	390.70
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	122.34	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	293.51	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	256.33	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	386.57	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	456.85	
07 72 13 00-0071 EA 62" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,334.58	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	95.89	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	229.35	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.43	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	93.64	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.20	
07 72 13 00-0072 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,438.16	330.59
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	102.49	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	246.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	194.32	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	295.61	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	359.69	
07 72 13 00-0073 EA 62" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,572.57	360.64
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	112.18	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	269.43	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	252.20	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	353.49	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	413.44	
07 72 13 00-0074 EA 62" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,603.40	360.64
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	115.26	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	275.60	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.83	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	139.12	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	242.48	
07 72 13 00-0075 EA 62" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,740.17	390.70
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	125.18	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	299.20	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	318.35	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	421.71	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	554.01	

07 72 13 00-0076 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0002)

07 72 13 00-0077 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0076)

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0078	EA		26" x 26" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	909.30	240.43
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	60.88	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	151.81	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	45.48	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	88.89	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	111.63	
07 72 13 00-0079	EA		26" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	940.12	240.43
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	63.96	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	157.97	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	55.81	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	113.70	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	134.37	
07 72 13 00-0080	EA		26" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,074.52	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	73.64	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	181.09	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	68.22	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	140.57	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	155.04	
07 72 13 00-0081	EA		26" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,145.65	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	80.75	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	195.32	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	90.96	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	183.98	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	198.45	
07 72 13 00-0082	EA		26" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,197.81	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	85.97	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	205.75	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	18.91	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	120.21	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	132.61	
07 72 13 00-0083	EA		26" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,462.61	300.54
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	108.69	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	254.96	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	150.91	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	243.93	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	283.21	
07 72 13 00-0084	EA		38" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	997.02	240.43
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	69.65	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	169.35	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	10.85	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	93.54	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	130.75	
07 72 13 00-0085	EA		38" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,093.49	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	75.54	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	184.89	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	86.82	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	173.64	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	208.79	
07 72 13 00-0086	EA		38" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,117.20	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	77.91	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	189.63	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	107.49	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	198.45	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	227.39	
07 72 13 00-0087	EA		38" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,138.54	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	80.04	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	193.90	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.22	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	118.45	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	145.32	
07 72 13 00-0088	EA		38" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,405.71	300.54
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	103.00	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	243.58	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	24.81	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	134.37	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	175.71	
07 72 13 00-0089	EA		38" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,544.85	330.59
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	113.16	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	267.65	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	30.39	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	156.49	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	206.10	
07 72 13 00-0090	EA		50" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,200.18	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	86.21	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	206.23	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.63	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	202.59	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	225.32	
07 72 13 00-0091	EA		50" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,308.50	300.54
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	93.28	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	224.13	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	134.37	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	219.12	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	260.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0092 EA 50" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,346.44 97.08 231.72 159.17 231.53 301.81	300.54
07 72 13 00-0093 EA 50" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,480.84 106.76 254.64 186.05 279.07 345.22	330.59
07 72 13 00-0094 EA 51" x 99" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,591.54 114.07 273.23 31.94 147.70 199.38	360.64
07 72 13 00-0095 EA 51" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,728.32 124.00 296.63 256.33 386.57 456.85	390.70
07 72 13 00-0096 EA 62" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,346.44 97.08 231.72 25.43 93.64 172.20	300.54
07 72 13 00-0097 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,450.02 103.68 248.68 194.32 295.61 359.69	330.59
07 72 13 00-0098 EA 62" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,586.80 113.60 272.28 252.20 353.49 413.44	360.64
07 72 13 00-0099 EA 62" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,619.99 116.92 278.92 37.83 139.12 242.48	360.64
07 72 13 00-0100 EA 62" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,759.14 127.08 302.99 318.35 421.71 554.01	390.70
07 72 13 00-0101 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0076)</small>		
07 72 13 00-0102 EA 26" x 26" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	930.64 63.01 156.07 45.48 88.89 111.63	240.43
07 72 13 00-0103 EA 26" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	966.20 66.57 163.19 55.81 113.70 134.37	240.43
07 72 13 00-0104 EA 26" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,110.08 77.20 188.21 68.22 140.57 155.04	270.48
07 72 13 00-0105 EA 26" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,188.32 85.02 203.85 90.96 183.98 198.45	270.48

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0106 EA 26" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,252.34	270.48
For Sloped Roofs Up To 1 In 12 Pitch, Add	91.42	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	216.66	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	120.21	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	132.61	
07 72 13 00-0107 EA 26" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,472.09	300.54
For Sloped Roofs Up To 1 In 12 Pitch, Add	109.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	256.85	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	150.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	243.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	283.21	
07 72 13 00-0108 EA 38" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,027.84	240.43
For Sloped Roofs Up To 1 In 12 Pitch, Add	72.73	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	175.51	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	10.85	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	93.54	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	130.75	
07 72 13 00-0109 EA 38" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,131.42	270.48
For Sloped Roofs Up To 1 In 12 Pitch, Add	79.33	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	192.47	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	86.82	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	173.64	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	208.79	
07 72 13 00-0110 EA 38" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,162.24	270.48
For Sloped Roofs Up To 1 In 12 Pitch, Add	82.41	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	198.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	107.49	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	198.45	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	227.39	
07 72 13 00-0111 EA 38" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,190.70	270.48
For Sloped Roofs Up To 1 In 12 Pitch, Add	85.26	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	204.33	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	19.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	118.45	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	145.32	
07 72 13 00-0112 EA 38" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,462.61	300.54
For Sloped Roofs Up To 1 In 12 Pitch, Add	108.69	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	254.96	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	24.81	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	134.37	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	175.71	
07 72 13 00-0113 EA 38" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,613.61	330.59
For Sloped Roofs Up To 1 In 12 Pitch, Add	120.04	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	281.40	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	30.39	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	156.49	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	206.10	
07 72 13 00-0114 EA 50" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,242.86	270.48
For Sloped Roofs Up To 1 In 12 Pitch, Add	90.48	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	214.76	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	111.63	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	202.59	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	225.32	
07 72 13 00-0115 EA 50" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,355.92	300.54
For Sloped Roofs Up To 1 In 12 Pitch, Add	98.03	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	233.62	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	134.37	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	219.12	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	260.47	
07 72 13 00-0116 EA 50" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,400.97	300.54
For Sloped Roofs Up To 1 In 12 Pitch, Add	102.53	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	242.63	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	159.17	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	231.53	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	301.81	
07 72 13 00-0117 EA 50" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,537.74	330.59
For Sloped Roofs Up To 1 In 12 Pitch, Add	112.45	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	266.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	186.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	279.07	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	345.22	
07 72 13 00-0118 EA 51" x 99" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,657.93	360.64
For Sloped Roofs Up To 1 In 12 Pitch, Add	120.71	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	286.51	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	31.94	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	147.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	199.38	
07 72 13 00-0119 EA 51" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,804.18	390.70
For Sloped Roofs Up To 1 In 12 Pitch, Add	131.58	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	312.00	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	256.33	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	386.57	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	456.85	



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0120	EA 62" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,400.97 102.53 242.63 25.43 93.64 172.20	300.54
07 72 13 00-0121	EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,511.66 109.84 261.01 194.32 295.61 359.69	330.59
07 72 13 00-0122	EA 62" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,653.19 120.24 285.56 252.20 353.49 413.44	360.64
07 72 13 00-0123	EA 62" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,688.75 123.79 292.67 37.83 139.12 242.48	360.64
07 72 13 00-0124	EA 62" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,839.75 135.14 319.11 318.35 421.71 554.01	390.70
07 72 13 00-0125	14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0076)</small>		
07 72 13 00-0126	EA 26" x 26" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	947.23 64.67 159.39 45.48 88.89 111.63	240.43
07 72 13 00-0127	EA 26" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	985.17 68.46 166.98 55.81 113.70 134.37	240.43
07 72 13 00-0128	EA 26" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,131.42 79.33 192.47 68.22 140.57 155.04	270.48
07 72 13 00-0129	EA 26" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,216.78 87.87 209.55 90.96 183.98 198.45	270.48
07 72 13 00-0130	EA 26" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,287.90 94.98 223.77 18.91 120.21 132.61	270.48
07 72 13 00-0131	EA 26" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,547.96 117.23 272.03 150.91 243.93 283.21	300.54
07 72 13 00-0132	EA 38" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,051.55 75.10 180.26 10.85 93.54 130.75	240.43
07 72 13 00-0133	EA 38" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,171.73 83.36 200.54 86.82 173.64 208.79	270.48

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0134	EA		38" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,214.40	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	87.63	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	209.07	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	107.49	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	198.45	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	227.39	
07 72 13 00-0135	EA		38" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,223.89	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	88.58	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	210.97	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.22	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	118.45	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	145.32	
07 72 13 00-0136	EA		38" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,505.29	300.54
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	112.96	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	263.49	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	24.81	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	134.37	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	175.71	
07 72 13 00-0137	EA		38" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,661.03	330.59
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	124.78	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	290.88	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	30.39	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	156.49	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	206.10	
07 72 13 00-0138	EA		50" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,271.31	270.48
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	93.32	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	220.45	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.63	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	202.59	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	225.32	
07 72 13 00-0139	EA		50" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,305.35	300.54
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	92.97	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	223.50	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	134.37	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	219.12	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	260.47	
07 72 13 00-0140	EA		50" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,436.53	300.54
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	106.09	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	249.74	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	159.17	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	231.53	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	301.81	
07 72 13 00-0141	EA		50" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,580.42	330.59
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	116.72	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	274.76	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	186.05	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	279.07	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	345.22	
07 72 13 00-0142	EA		51" x 99" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,700.60	360.64
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	124.98	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	295.04	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.94	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	147.70	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	199.38	
07 72 13 00-0143	EA		51" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,856.34	390.70
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	136.80	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	322.43	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	256.33	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	386.57	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	456.85	
07 72 13 00-0144	EA		62" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,436.53	300.54
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	106.09	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	249.74	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.43	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	93.64	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.20	
07 72 13 00-0145	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,554.34	330.59
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	114.11	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	269.54	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	194.32	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	295.61	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	359.69	
07 72 13 00-0146	EA		62" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,693.49	360.64
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	124.27	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	293.62	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	252.20	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	353.49	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	413.44	
07 72 13 00-0147	EA		62" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,736.17	360.64
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	128.54	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	302.15	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.83	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	139.12	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	242.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0148 EA 62" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,891.91	390.70
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	140.35	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	329.55	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	318.35	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	421.71	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	554.01	
07 72 13 00-0149 Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs (07 72 13 00-0001)		
Note: Includes 1" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction and installation clips.		
07 72 13 00-0150 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs (07 72 13 00-0149)		
07 72 13 00-0151 EA 14-1/2" To 23" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	894.83	240.43
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	59.43	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	148.91	
07 72 13 00-0152 EA 23-1/2" To 32" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,025.23	240.43
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	72.47	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	174.99	
07 72 13 00-0153 EA 32-1/2" To 41" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,172.88	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	83.48	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	200.77	
07 72 13 00-0154 EA 41" To 49-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,277.01	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	93.89	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	221.59	
07 72 13 00-0155 EA 50" To 58-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,412.69	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	103.70	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	244.97	
07 72 13 00-0156 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs (07 72 13 00-0149)		
07 72 13 00-0157 EA 14-1/2" To 23" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,085.78	240.43
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	78.52	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	187.10	
07 72 13 00-0158 EA 23-1/2" To 32" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,262.76	240.43
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	96.22	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	222.50	
07 72 13 00-0159 EA 32-1/2" To 41" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,342.88	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	100.48	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	234.77	
07 72 13 00-0160 EA 41" To 49-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,409.41	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	107.13	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	248.07	
07 72 13 00-0161 EA 50" To 58-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,577.69	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	120.20	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	277.97	
07 72 13 00-0162 EA 64" To 72-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	2,465.89	330.59
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	205.27	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	451.85	
07 72 13 00-0163 18" To 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs (07 72 13 00-0149)		
07 72 13 00-0164 EA 17-1/2" To 22" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,399.48	240.43
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	109.89	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	249.84	
07 72 13 00-0165 EA 24" To 29" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,580.46	240.43
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	127.99	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	286.04	
07 72 13 00-0166 EA 31" To 46" Square Outside Dimensions, 18" Height, 16 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,870.49	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	153.24	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	340.29	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0167 Wood, Prefabricated Roof Curbs ^(07 72 13) Note: Includes Douglas fir construction, galvanized steel corner straps, fasteners, sealants, and installation clips. Includes 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips. Excludes flashing. See CSI section 07 62 13 00-0000 for flashing and trim.		
07 72 13 00-0168 Wood Framed, Prefabricated Roof Curbs ^(07 72 13 00-0167)		
07 72 13 00-0169 2 x 6 Wood Framed, Prefabricated Roof Curbs ^(07 72 13 00-0169)		
07 72 13 00-0170 EA 26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....768.52	240.43	
For Sloped Roofs Up To 1 In 12 Pitch, Add	46.80	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	123.65	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	45.48	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	88.89	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	111.63	
07 72 13 00-0171 EA 26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....856.06	270.48	
For Sloped Roofs Up To 1 In 12 Pitch, Add	51.80	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	137.40	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	68.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	140.57	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	155.04	
07 72 13 00-0172 EA 26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....909.80	270.48	
For Sloped Roofs Up To 1 In 12 Pitch, Add	57.17	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	148.15	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	120.21	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	132.61	
07 72 13 00-0173 EA 38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....903.60	270.48	
For Sloped Roofs Up To 1 In 12 Pitch, Add	56.55	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	146.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	107.49	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	198.45	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	227.39	
07 72 13 00-0174 EA 38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....918.07	270.48	
For Sloped Roofs Up To 1 In 12 Pitch, Add	58.00	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	149.80	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	19.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	118.45	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	145.32	
07 72 13 00-0175 EA 38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....1,028.34	300.54	
For Sloped Roofs Up To 1 In 12 Pitch, Add	65.27	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	168.10	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	24.81	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	134.37	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	175.71	
07 72 13 00-0176 EA 50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....913.94	270.48	
For Sloped Roofs Up To 1 In 12 Pitch, Add	57.58	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	148.98	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	111.63	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	202.59	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	225.32	
07 72 13 00-0177 EA 50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....1,046.95	300.54	
For Sloped Roofs Up To 1 In 12 Pitch, Add	67.13	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	171.82	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	159.17	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	231.53	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	301.81	
07 72 13 00-0178 EA 51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....1,197.22	360.64	
For Sloped Roofs Up To 1 In 12 Pitch, Add	74.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	194.36	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	31.94	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	147.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	199.38	
07 72 13 00-0179 EA 62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....1,009.74	300.54	
For Sloped Roofs Up To 1 In 12 Pitch, Add	63.41	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	164.38	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	25.43	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	93.64	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	172.20	
07 72 13 00-0180 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....1,109.68	330.59	
For Sloped Roofs Up To 1 In 12 Pitch, Add	69.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	180.61	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	194.32	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	295.61	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	359.69	
07 72 13 00-0181 EA 62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....1,238.56	360.64	
For Sloped Roofs Up To 1 In 12 Pitch, Add	78.78	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	202.63	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	37.83	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	139.12	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	242.48	
07 72 13 00-0182 2 x 8 Wood Framed, Prefabricated Roof Curbs ^(07 72 13 00-0182)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0183 EA 26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb 780.93	780.93	240.43
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	48.04	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	126.13	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	45.48	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	88.89	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	111.63	
07 72 13 00-0184 EA 26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb 870.53	870.53	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	53.24	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	140.30	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	68.22	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	140.57	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	155.04	
07 72 13 00-0185 EA 26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb 949.08	949.08	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	61.10	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	156.01	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	18.91	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	120.21	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	132.61	
07 72 13 00-0186 EA 38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb 928.41	928.41	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	59.03	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	151.87	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	107.49	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	198.45	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	227.39	
07 72 13 00-0187 EA 38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb 949.08	949.08	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	61.10	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	156.01	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.22	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	118.45	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	145.32	
07 72 13 00-0188 EA 38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb 1,059.35	1,059.35	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	68.37	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	174.30	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	24.81	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	134.37	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	175.71	
07 72 13 00-0189 EA 50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb 936.68	936.68	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	59.86	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	153.53	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.63	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	202.59	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	225.32	
07 72 13 00-0190 EA 50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb 1,075.89	1,075.89	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	70.02	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	177.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	159.17	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	231.53	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	301.81	
07 72 13 00-0191 EA 51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb 1,226.16	1,226.16	360.64
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	77.54	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	200.15	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.94	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	147.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	199.38	
07 72 13 00-0192 EA 62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb 1,032.48	1,032.48	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	65.68	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	168.93	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.43	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	93.64	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.20	
07 72 13 00-0193 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb 1,136.55	1,136.55	330.59
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	72.33	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	185.99	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	194.32	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	295.61	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	359.69	
07 72 13 00-0194 EA 62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb 1,267.50	1,267.50	360.64
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	81.67	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	208.42	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.83	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	139.12	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	242.48	
07 72 13 00-0195 2 x 10 Wood Framed, Prefabricated Roof Curbs <small>(07 72 13 00-0188)</small>		
07 72 13 00-0196 EA 26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb 789.20	789.20	240.43
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	48.87	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	127.79	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	45.48	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	88.89	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	111.63	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0197	EA		26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	885.00 54.69 143.19 68.22 140.57 155.04	270.48
07 72 13 00-0198	EA		26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	953.21 61.51 156.83 18.91 120.21 132.61	270.48
07 72 13 00-0199	EA		38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	942.88 60.48 154.77 107.49 198.45 227.39	270.48
07 72 13 00-0200	EA		38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	967.69 62.96 159.73 19.22 118.45 145.32	270.48
07 72 13 00-0201	EA		38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,080.02 70.44 178.44 24.81 134.37 175.71	300.54
07 72 13 00-0202	EA		50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	951.15 61.30 156.42 111.63 202.59 225.32	270.48
07 72 13 00-0203	EA		50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,094.50 71.88 181.33 159.17 231.53 301.81	300.54
07 72 13 00-0204	EA		51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,244.77 79.40 203.87 31.94 147.70 199.38	360.64
07 72 13 00-0205	EA		62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,046.95 67.13 171.82 25.43 93.64 172.20	300.54
07 72 13 00-0206	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,153.09 73.99 189.29 194.32 295.61 359.69	330.59
07 72 13 00-0207	EA		62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,288.18 83.74 212.56 37.83 139.12 242.48	360.64
07 72 13 00-0208			2 x 12 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)		
07 72 13 00-0209	EA		26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	799.53 49.90 129.85 45.48 88.89 111.63	240.43
07 72 13 00-0210	EA		26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	893.27 55.52 144.84 68.22 140.57 155.04	270.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0211 EA 26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	971.82 63.37 160.55 18.91 120.21 132.61	270.48
07 72 13 00-0212 EA 38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	988.36 65.03 163.66 19.22 118.45 145.32	270.48
07 72 13 00-0213 EA 38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,102.76 72.71 182.99 24.81 134.37 175.71	300.54
07 72 13 00-0214 EA 50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	969.75 63.16 160.14 111.63 202.59 225.32	270.48
07 72 13 00-0215 EA 50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,115.17 73.95 185.47 159.17 231.53 301.81	300.54
07 72 13 00-0216 EA 51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,269.57 81.88 208.63 31.94 147.70 199.38	360.64
07 72 13 00-0217 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,169.63 75.64 192.60 194.32 295.61 359.69	330.59
07 72 13 00-0218 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0167)		
07 72 13 00-0219 2 x 6 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)		
07 72 13 00-0220 EA 26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	785.06 48.45 126.96 45.48 88.89 111.63	240.43
07 72 13 00-0221 EA 26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	870.53 53.24 140.30 68.22 140.57 155.04	270.48
07 72 13 00-0222 EA 26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	936.68 59.86 153.53 18.91 120.21 132.61	270.48
07 72 13 00-0223 EA 38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	922.21 58.41 150.63 107.49 198.45 227.39	270.48
07 72 13 00-0224 EA 38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	940.81 60.27 154.35 19.22 118.45 145.32	270.48
07 72 13 00-0225 EA 38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,053.15 67.75 173.06 24.81 134.37 175.71	300.54

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0226	EA	50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	932.54	270.48
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	59.44	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	152.70	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.63	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	202.59	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	225.32	
07 72 13 00-0227	EA	50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,069.69	300.54
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	69.40	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	176.37	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	159.17	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	231.53	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	301.81	
07 72 13 00-0228	EA	51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,219.96	360.64
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	76.92	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	198.91	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.94	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	147.70	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	199.38	
07 72 13 00-0229	EA	62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,034.55	300.54
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	65.89	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	169.34	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.43	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	93.64	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.20	
07 72 13 00-0230	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,132.42	330.59
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	71.92	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	185.16	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	194.32	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	295.61	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	359.69	
07 72 13 00-0231	EA	62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,267.50	360.64
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	81.67	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	208.42	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.83	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	139.12	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	242.48	
07 72 13 00-0232		2 x 8 Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0218)</small>		
07 72 13 00-0233	EA	26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	799.53	240.43
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	49.90	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	129.85	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	45.48	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	88.89	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	111.63	
07 72 13 00-0234	EA	26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	887.06	270.48
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	54.90	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	143.60	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	68.22	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	140.57	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	155.04	
07 72 13 00-0235	EA	26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	961.48	270.48
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	62.34	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	158.49	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	18.91	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	120.21	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	132.61	
07 72 13 00-0236	EA	38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	947.01	270.48
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	60.89	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	155.59	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	107.49	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	198.45	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	227.39	
07 72 13 00-0237	EA	38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	973.89	270.48
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	63.58	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	160.97	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.22	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	118.45	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	145.32	
07 72 13 00-0238	EA	38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,090.36	300.54
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	71.47	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	180.51	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	24.81	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	134.37	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	175.71	
07 72 13 00-0239	EA	50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	961.48	270.48
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	62.34	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	158.49	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.63	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	202.59	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	225.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0240 EA 50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,104.83	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	72.92	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	183.40	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	159.17	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	231.53	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	301.81	
07 72 13 00-0241 EA 51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,259.24	360.64
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	80.84	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	206.77	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.94	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	147.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	199.38	
07 72 13 00-0242 EA 62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,061.42	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	68.58	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	174.72	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.43	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	93.64	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.20	
07 72 13 00-0243 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,163.42	330.59
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	75.02	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	191.36	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	194.32	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	295.61	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	359.69	
07 72 13 00-0244 EA 62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,302.65	360.64
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	85.18	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	215.45	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.83	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	139.12	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	242.48	
07 72 13 00-0245 2 x 10 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)		
07 72 13 00-0246 EA 26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	811.93	240.43
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	51.14	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	132.33	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	45.48	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	88.89	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	111.63	
07 72 13 00-0247 EA 26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	903.60	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	56.55	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	146.91	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	68.22	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	140.57	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	155.04	
07 72 13 00-0248 EA 26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	986.29	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	64.82	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	163.45	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	18.91	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	120.21	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	132.61	
07 72 13 00-0249 EA 38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	965.62	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	62.75	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	159.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	107.49	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	198.45	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	227.39	
07 72 13 00-0250 EA 38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	998.69	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	66.06	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	165.93	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.22	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	118.45	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	145.32	
07 72 13 00-0251 EA 38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,117.23	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	74.16	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	185.88	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	24.81	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	134.37	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	175.71	
07 72 13 00-0252 EA 50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	980.09	270.48
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	64.20	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	162.21	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.63	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	202.59	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	225.32	
07 72 13 00-0253 EA 50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,127.57	300.54
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	75.19	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	187.95	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	159.17	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	231.53	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	301.81	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0254	EA		51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,284.04 83.32 211.73 31.94 147.70 199.38	360.64
07 72 13 00-0255	EA		62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,082.09 70.64 178.85 25.43 93.64 172.20	300.54
07 72 13 00-0256	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,186.16 77.29 195.91 194.32 295.61 359.69	330.59
07 72 13 00-0257	EA		62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,329.52 87.87 220.82 37.83 139.12 242.48	360.64
07 72 13 00-0258			2 x 12 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)		
07 72 13 00-0259	EA		26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	836.74 53.62 137.29 45.48 88.89 111.63	240.43
07 72 13 00-0260	EA		26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	916.01 57.79 149.39 68.22 140.57 155.04	270.48
07 72 13 00-0261	EA		26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,004.89 66.68 167.17 18.91 120.21 132.61	270.48
07 72 13 00-0262	EA		38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,019.37 68.13 170.06 19.22 118.45 145.32	270.48
07 72 13 00-0263	EA		38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,195.79 82.01 201.59 24.81 134.37 175.71	300.54
07 72 13 00-0264	EA		50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,040.04 70.19 174.20 111.63 202.59 225.32	270.48
07 72 13 00-0265	EA		50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,199.92 82.43 202.42 159.17 231.53 301.81	300.54
07 72 13 00-0266	EA		51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,366.73 91.59 228.27 31.94 147.70 199.38	360.64
07 72 13 00-0267	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,262.65 84.94 211.21 194.32 295.61 359.69	330.59

07 72 23 Relief Vents (07 72)



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 72 23 00-0001				Wind Driven Turbine Ventilators (07 72 23) Note: Excludes curb or flange base.		
07 72 23 00-0002				Galvanized Steel, Wind Driven Turbine Ventilators (07 72 23 00-0001)		
07 72 23 00-0003	EA			6" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	178.41	40.86
				<i>For Curb Or Flange Base, Add</i>	205.95	
07 72 23 00-0004	EA			9" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	213.47	45.24
				<i>For Curb Or Flange Base, Add</i>	226.82	
07 72 23 00-0005	EA			12" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	231.68	53.99
				<i>For Curb Or Flange Base, Add</i>	254.23	
07 72 23 00-0006	EA			15" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	434.78	59.83
				<i>For Curb Or Flange Base, Add</i>	396.09	
07 72 23 00-0007	EA			18" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	595.40	67.12
				<i>For Curb Or Flange Base, Add</i>	430.02	
07 72 23 00-0008	EA			21" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	716.41	72.96
				<i>For Curb Or Flange Base, Add</i>	466.49	
07 72 23 00-0009	EA			24" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	912.72	81.71
				<i>For Curb Or Flange Base, Add</i>	568.05	
07 72 23 00-0010	EA			36" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	1,502.18	109.44
				<i>For Curb Or Flange Base, Add</i>	920.42	
07 72 23 00-0011				Mill Finish Aluminum, Wind Driven Turbine Ventilators (07 72 23 00-0001)		
07 72 23 00-0012	EA			6" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	178.92	40.86
				<i>For Curb Or Flange Base, Add</i>	218.30	
07 72 23 00-0013	EA			9" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	222.33	45.24
				<i>For Curb Or Flange Base, Add</i>	240.70	
07 72 23 00-0014	EA			12" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	249.54	53.99
				<i>For Curb Or Flange Base, Add</i>	268.23	
07 72 23 00-0015	EA			15" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	439.00	59.83
				<i>For Curb Or Flange Base, Add</i>	448.66	
07 72 23 00-0016	EA			18" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	565.02	67.12
				<i>For Curb Or Flange Base, Add</i>	480.39	
07 72 23 00-0017	EA			21" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	712.95	72.96
				<i>For Curb Or Flange Base, Add</i>	540.30	
07 72 23 00-0018	EA			24" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	960.38	81.71
				<i>For Curb Or Flange Base, Add</i>	650.86	
07 72 23 00-0019	EA			36" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	1,428.76	109.44
				<i>For Curb Or Flange Base, Add</i>	974.58	
07 72 23 00-0020				Stationary Siphon Ventilators (07 72 23)		
07 72 23 00-0021				Galvanized Steel, Stationary Siphon Ventilators (07 72 23 00-0020)		
07 72 23 00-0022	EA			6" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	152.05	40.86
				<i>For Curb Or Flange Base, Add</i>	205.95	
07 72 23 00-0023	EA			9" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	198.39	45.24
				<i>For Curb Or Flange Base, Add</i>	226.82	
07 72 23 00-0024	EA			12" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	219.33	53.99
				<i>For Curb Or Flange Base, Add</i>	254.23	
07 72 23 00-0025	EA			15" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	367.14	59.83
				<i>For Curb Or Flange Base, Add</i>	396.09	
07 72 23 00-0026	EA			18" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	424.23	67.12
				<i>For Curb Or Flange Base, Add</i>	430.02	
07 72 23 00-0027	EA			21" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	595.44	72.96
				<i>For Curb Or Flange Base, Add</i>	466.49	
07 72 23 00-0028	EA			24" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	772.52	81.71
				<i>For Curb Or Flange Base, Add</i>	568.05	
07 72 23 00-0029	EA			36" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	1,117.60	109.44
				<i>For Curb Or Flange Base, Add</i>	920.42	
07 72 23 00-0030				Mill Finish Aluminum, Stationary Siphon Ventilators (07 72 23 00-0020)		
07 72 23 00-0031	EA			6" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	172.22	40.86
				<i>For Curb Or Flange Base, Add</i>	218.30	
07 72 23 00-0032	EA			9" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	226.33	45.24
				<i>For Curb Or Flange Base, Add</i>	240.70	
07 72 23 00-0033	EA			12" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	252.90	53.99
				<i>For Curb Or Flange Base, Add</i>	268.23	
07 72 23 00-0034	EA			15" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	407.47	59.83
				<i>For Curb Or Flange Base, Add</i>	448.66	
07 72 23 00-0035	EA			18" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	511.46	67.12
				<i>For Curb Or Flange Base, Add</i>	480.39	
07 72 23 00-0036	EA			21" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	625.90	72.96
				<i>For Curb Or Flange Base, Add</i>	540.30	
07 72 23 00-0037	EA			24" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	893.45	81.71
				<i>For Curb Or Flange Base, Add</i>	650.86	
07 72 23 00-0038	EA			36" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	1,343.20	109.44
				<i>For Curb Or Flange Base, Add</i>	974.58	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 23 00-0039			Spun Aluminum, Stationary Mushroom Gravity Ventilators (07 72 23) Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0040	EA		8" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	355.25	65.66
			For Backdraft Damper, Add	181.80	
			For Curb Base, Add	274.48	
07 72 23 00-0041	EA		10" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	436.92	72.96
			For Backdraft Damper, Add	198.91	
			For Curb Base, Add	300.29	
07 72 23 00-0042	EA		12" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	494.79	87.56
			For Backdraft Damper, Add	271.63	
			For Curb Base, Add	380.45	
07 72 23 00-0043	EA		16" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	602.24	96.31
			For Backdraft Damper, Add	310.13	
			For Curb Base, Add	440.53	
07 72 23 00-0044	EA		24" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	1,588.10	131.33
			For Backdraft Damper, Add	389.27	
			For Curb Base, Add	580.31	
07 72 23 00-0045	EA		30" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	1,938.61	151.76
			For Backdraft Damper, Add	459.85	
			For Curb Base, Add	693.39	
07 72 23 00-0046	EA		36" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	2,638.65	175.10
			For Backdraft Damper, Add	459.85	
			For Curb Base, Add	722.41	
07 72 23 00-0047	EA		42" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	3,703.90	189.70
			For Backdraft Damper, Add	481.24	
			For Curb Base, Add	749.10	
07 72 23 00-0048	EA		48" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	5,323.13	204.29
			For Backdraft Damper, Add	534.71	
			For Curb Base, Add	842.09	
07 72 23 00-0049			Galvanized Steel, Stationary Gooseneck Ventilators (07 72 23) Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0050	EA		8" x 8", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator	623.57	72.96
07 72 23 00-0051	EA		12" x 12", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator	733.93	96.31
07 72 23 00-0052	EA		16" x 16", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator	1,055.03	131.33
07 72 23 00-0053	EA		24" x 24", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator	1,625.21	151.76
07 72 26			Ridge Vents (07 72)		
07 72 26 00-0001			Aluminum Ridge Vents (07 72 26)		
07 72 26 00-0002	LF		Aluminum Ridge Vent Strips	16.48	4.23
07 72 26 00-0003	EA		Aluminum Ridge Univent Connectors	66.12	26.30
07 72 26 00-0004	EA		Aluminum Ridge Univent End Cap	61.85	26.30
07 72 26 00-0005			Galvanized Ridge Vents (07 72 26)		
07 72 26 00-0006	LF		Galvanized Sheet Metal Ridge Vent Strips	15.65	4.52
07 72 29			Rafter Vent (07 72)		
07 72 29 00-0001			Rafter Vent (07 72 29) Note: Built-in baffle is designed to help keep air flowing freely from soffits to ridge vents.		
07 72 29 00-0002	EA		22" x 4' Rafter Vent	11.78	
07 72 29 00-0003	EA		14" x 4' Rafter Vent	10.75	
07 72 33			Roof Hatches (07 72) Note: Includes curb with integral insulation, lockable hatch and gaskets.		
07 72 33 00-0001			Galvanized Steel Cover And Curb (07 72 33)		
07 72 33 00-0002	EA		2'-6" x 3'-0" Galvanized Steel Roof Hatch (Bilco S-20)	1,316.99	179.04
07 72 33 00-0003	EA		2'-6" x 4'-6" Galvanized Steel Roof Hatch (Bilco NB-20)	1,908.75	198.93
07 72 33 00-0004	EA		2'-6" x 8'-0" Galvanized Steel Roof Hatch (Bilco L-20)	3,340.64	271.29
07 72 33 00-0005	EA		3'-0" x 3'-0" Galvanized Steel Roof Hatch (Bilco E-20)	1,877.03	198.93
07 72 33 00-0006	EA		4'-0" x 4'-0" Galvanized Steel Roof Hatch	2,116.84	221.07
07 72 33 00-0007	EA		3'-0" x 8'-0" Galvanized Steel Roof Hatch	3,451.10	301.51
07 72 33 00-0008			Aluminum Cover And Curb (07 72 33)		
07 72 33 00-0009	EA		2'-6" x 3'-0" Aluminum Roof Hatch (Bilco S-50)	1,257.06	179.04
07 72 33 00-0010	EA		2'-6" x 4'-6" Aluminum Roof Hatch (Bilco NB-50)	1,619.76	198.93
07 72 33 00-0011	EA		2'-6" x 8'-0" Aluminum Roof Hatch (Bilco L-50)	2,906.36	271.29
07 72 33 00-0012	EA		3'-0" x 3'-0" Aluminum Roof Hatch (Bilco E-50)	1,580.63	198.93
07 72 33 00-0013	EA		4'-0" x 4'-0" Aluminum Roof Hatch (Bilco F-50)	2,765.54	221.07
07 72 33 00-0014	EA		3'-0" x 8'-0" Aluminum Roof Hatch	3,059.77	301.51
07 72 33 00-0015	EA		3'-0" x 2'-6" Aluminum Roof Scuttle With Skylight (Bilco GS-50)	1,760.73	198.93
07 72 33 00-0016			Steel, Plain, Primed (07 72 33)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 33 00-0017 EA 2'-6" x 3'-0" Plain Steel Roof Hatch Primed (Bilco S-20).....	1,265.66	179.04
07 72 33 00-0018 EA 2'-6" x 4'-6" Plain Steel Roof Hatch Primed (Bilco NB-20).....	1,695.54	198.93
07 72 33 00-0019 EA 2'-6" x 8'-0" Plain Steel Roof Hatch Primed (Bilco L-20).....	2,322.33	271.29
07 72 33 00-0020 EA 3'-0" x 3'-0" Plain Steel Roof Hatch Primed (Bilco E-20).....	1,573.92	198.93
07 72 33 00-0021 EA 4'-0" x 4'-0" Plain Steel Roof Hatch Primed	1,921.28	221.07
07 72 33 00-0022 EA 3'-0" x 8'-0" Plain Steel Roof Hatch Primed	2,610.20	301.51
07 72 33 00-0023 Stainless Steel <small>(07 72 33)</small>		
07 72 33 00-0024 EA 2'-6" x 3'-0" Stainless Steel Roof Hatch (Bilco S-90)	2,615.02	179.04
07 72 33 00-0025 EA 2'-6" x 4'-6" Stainless Steel Roof Hatch (Bilco NB-90).....	4,934.53	198.93
07 72 33 00-0026 EA 2'-6" x 8'-0" Stainless Steel Roof Hatch (Bilco L-90).....	7,406.94	271.29
07 72 33 00-0027 EA 3'-0" x 3'-0" Stainless Steel Roof Hatch (Bilco E-90)	3,972.33	198.93
07 72 33 00-0028 EA 4'-0" x 4'-0" Stainless Steel Roof Hatch	8,305.50	221.07
07 72 33 00-0029 EA 3'-0" x 8'-0" Stainless Steel Roof Hatch	9,325.65	301.51
07 72 33 00-0030 Removal And Reinstallation Of Roof Hatch <small>(07 72 33)</small>		
Note: Includes storage, cleaning and supply materials.		
07 72 33 00-0031 EA Removal And Reinstallation Of Roof Hatch (All Types).....	550.70	
07 72 33 00-0032 Aluminum Cover And Galvanized Steel Curb <small>(07 72 33)</small>		
07 72 33 00-0033 EA Aluminum Cover, Galvanized Steel Curb 3'-0" x 2'-6" Roof (Bilco S-40).....	1,220.03	198.93
07 72 33 00-0034 EA Aluminum Cover, Galvanized Steel Curb 2'-6" x 4'-6" Roof (Bilco NB-40).....	1,582.72	221.07
07 72 33 00-0035 EA Aluminum Cover, Galvanized Steel Curb 2'-6" x 8'-0" Roof (Bilco L-40).....	2,810.07	301.38
07 72 33 00-0036 EA Aluminum Cover, Galvanized Steel Curb 3'-0" x 3'-0" Roof (Bilco E-40).....	1,551.00	205.15
07 72 33 00-0037 EA Aluminum Cover, Galvanized Steel Curb 4'-0" x 4'-0" Roof (Bilco F-40).....	2,684.06	227.28
07 72 33 00-0038 Roof Hatch Accessories <small>(07 72 33)</small>		
07 72 33 00-0039 EA Roof Hatch Ladderup Safety Post (Bilco LU-1).....	810.42	93.25
07 72 33 00-0040 Roof Hatch Safety Railing <small>(07 72 33)</small>		
Note: Included mounting bracket to attach to roof hatch		
07 72 33 00-0041 EA 24" x 24" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-24x24).....	2,022.96	
07 72 33 00-0042 EA 24" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-24x36).....	2,100.79	
07 72 33 00-0043 EA 30" x 30" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-30x30).....	2,152.00	
07 72 33 00-0044 EA 30" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-30x36).....	2,339.32	
07 72 33 00-0045 EA 36" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-36x36).....	2,555.81	
07 72 33 00-0046 EA 48" x 48" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-48x48).....	3,254.44	
07 72 36 Smoke Vents <small>(07 72)</small>		
07 72 36 00-0001 EA Fire Vent <small>(07 72 36)</small>		
07 72 36 00-0002 Galvanized Steel Covers And Curb <small>(07 72 36 00-0001)</small>		
07 72 36 00-0003 EA 4'-0" x 4'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4848).....	3,299.37	165.86
07 72 36 00-0004 EA 4'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4872).....	3,803.31	228.03
07 72 36 00-0005 EA 4'-0" x 7'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4890).....	4,333.06	248.79
07 72 36 00-0006 EA 4'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4896).....	4,420.15	261.23
07 72 36 00-0007 EA 5'-0" x 5'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6060).....	5,113.55	228.03
07 72 36 00-0008 EA 5'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6072).....	5,437.96	248.79
07 72 36 00-0009 EA 5'-0" x 7'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6084).....	5,742.81	269.56
07 72 36 00-0010 EA 5'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6096).....	6,536.56	290.32
07 72 36 00-0011 EA 5'-0" x 10'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-60120).....	8,102.78	310.96
07 72 36 00-0012 EA 5'-6" x 5'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6666).....	5,439.70	269.56
07 72 36 00-0013 EA 5'-6" x 12'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-66114).....	11,399.70	331.72
07 72 36 00-0014 EA 6'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-7272).....	6,277.82	352.49
07 72 36 00-0015 Aluminum Covers And Galvanized Steel Curb <small>(07 72 36 00-0001)</small>		
07 72 36 00-0016 EA 4'-0" x 4'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4848A).....	2,648.49	165.86
07 72 36 00-0017 EA 4'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4872A).....	3,045.43	228.03
07 72 36 00-0018 EA 4'-0" x 7'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4890A).....	3,424.63	248.79
07 72 36 00-0019 EA 4'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4896A).....	3,546.98	261.23
07 72 36 00-0020 EA 5'-0" x 5'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6060A).....	3,437.99	228.03
07 72 36 00-0021 EA 5'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6072A).....	4,380.12	248.79
07 72 36 00-0022 EA 5'-0" x 7'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6084A).....	4,685.24	269.56
07 72 36 00-0023 EA 5'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6096A).....	4,568.17	290.32
07 72 36 00-0024 EA 5'-0" x 10'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-60120A).....	6,391.72	310.96
07 72 36 00-0025 EA 5'-6" x 5'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6666A).....	4,426.00	269.56
07 72 36 00-0026 EA 5'-6" x 12'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-66144A).....	8,363.41	331.72
07 72 36 00-0027 EA 6'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-7272A).....	4,365.16	352.49
07 72 36 00-0028 Aluminum Covers And Curb <small>(07 72 36 00-0001)</small>		
07 72 36 00-0029 EA 4'-0" x 4'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4848B).....	2,885.51	165.86

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 36 00-0030 EA 4'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4872B)	3,437.99	228.03
07 72 36 00-0031 EA 4'-0" x 7'-6" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4890B)	3,772.75	248.79
07 72 36 00-0032 EA 4'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4896B)	3,991.39	261.23
07 72 36 00-0033 EA 5'-0" x 5'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6060B)	3,615.76	228.03
07 72 36 00-0034 EA 5'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6072B)	4,565.29	248.79
07 72 36 00-0035 EA 5'-0" x 7'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6084B)	4,848.19	269.56
07 72 36 00-0036 EA 5'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6096B)	5,012.58	290.32
07 72 36 00-0037 EA 5'-0" x 10'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-60120B)	6,073.23	310.96
07 72 36 00-0038 EA 5'-6" x 5'-6" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6666B)	4,633.39	269.56
07 72 36 00-0039 EA 5'-6" x 12'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-66114B)	9,126.32	331.72
07 72 36 00-0040 EA 6'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-7272B)	4,809.57	352.49
07 72 36 00-0041 Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb <small>(07 72 36)</small>		
07 72 36 00-0042 EA 4'-0" x 4'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4848B)	2,855.88	165.37
07 72 36 00-0043 EA 4'-0" x 6'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4872B)	3,623.15	228.03
07 72 36 00-0044 EA 4'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4896B)	3,835.84	261.23
07 72 36 00-0045 EA 5'-0" x 5'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV6060B)	4,104.61	228.03
07 72 36 00-0046 EA 5'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV6096B)	4,345.99	290.32
07 72 46 Roof Walkways <small>(07 72)</small>		
07 72 46 00-0001 Recycled Rubber Walkway Pads <small>(07 72 46)</small>		
07 72 46 00-0002 SF 3/8" Thick, Button Surface, Recycled Rubber Walkway Pad	11.79	2.77
<i>For Diamond Surface, Add</i>	1.05	
07 72 46 00-0003 SF 1/2" Thick, Button Surface, Recycled Rubber Walkway Pad	13.16	3.33
<i>For Diamond Surface, Add</i>	1.23	
07 72 46 00-0004 SF 3/4" Thick, Button Surface, Recycled Rubber Walkway Pad	14.55	3.33
<i>For Diamond Surface, Add</i>	1.38	
07 72 53 Snow Guards <small>(07 72)</small>		
07 72 53 00-0001 Snow Guards For Shingle And Tile Roofs <small>(07 72 53)</small>		
07 72 53 00-0002 EA 6-5/8" Length, 1-1/2" Width, Copper Snow Guards For Shingle And Tile Roofs	23.66	2.83
07 72 53 00-0003 EA 6-5/8" Length, 1-1/2" Width, Lead Coated Copper Snow Guards For Shingle And Tile Roofs	25.92	2.83
07 72 53 00-0004 EA 6-5/8" Length, 1-1/2" Width, Stainless Steel Snow Guards For Shingle And Tile Roofs	24.43	2.83
07 72 53 00-0005 EA 6-5/8" Length, 1-1/2" Width, Aluminum Snow Guards For Shingle And Tile Roofs	13.98	2.83
07 72 53 00-0006 Snow Guards For Metal Roofs <small>(07 72 53)</small>		
Note: Aluminum construction.		
07 72 53 00-0007 EA Mill Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	29.84	5.22
07 72 53 00-0008 EA Black Primer Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	33.26	5.22
07 72 53 00-0009 EA Bronze Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	49.43	5.22
07 72 53 00-0010 EA Painted Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	48.70	5.22
07 72 53 00-0011 EA Mill Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516)	45.59	6.09
07 72 53 00-0012 EA Black Primer Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516)	49.89	6.09
07 72 53 00-0013 EA Painted Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516)	62.53	6.09
07 72 53 00-0014 EA Mill Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	26.07	4.57
<i>For Mechanically Fastened, Add</i>	9.13	
07 72 53 00-0015 EA Black Primer Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	29.62	4.57
<i>For Mechanically Fastened, Add</i>	9.13	
07 72 53 00-0016 EA Painted Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	41.68	4.57
<i>For Mechanically Fastened, Add</i>	9.13	
07 72 53 00-0017 EA Polycarbonate, Adhesive Surface Mount, Metal Roof Snow Guard (Zaleski #15)	14.93	4.57
Note: Can be used for metal, rubber, PVC, TPO or glass roofing.		
<i>For Mechanically Fastened, Add</i>	12.17	
07 72 53 00-0018 Snow Breaker For Roofs <small>(07 72 53)</small>		
07 72 53 00-0019 EA Up To 50 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	18.85	6.09
07 72 53 00-0020 EA >50 To 150 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	17.77	6.09
07 72 53 00-0021 EA >150 To 500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	17.23	6.09
07 72 53 00-0022 EA >500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	16.58	6.09
07 72 53 00-0023 Ice Breaker For Vents <small>(07 72 53)</small>		
07 72 53 00-0024 EA Ice Breaker For Vents Up to 4", Mechanically Fastened	147.04	
07 72 53 00-0025 EA Ice Breaker For Vents And Stacks >4" To 14" Diameter, Mechanically Fastened	168.76	
07 72 53 00-0026 Pipe Style, Snow Guards For Metal Roofs <small>(07 72 53)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 53 00-0027 Pipe Style, Standing Seam Metal Roof Snow Guard Clamps <small>(07 72 53 00-0026)</small> Note: Aluminum construction. Includes clamp for attaching to standing seam. Excludes tubing.		
07 72 53 00-0028 EA Single Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000).....	71.02	18.26
07 72 53 00-0029 EA Single Tube, "T2 or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000).....	84.31	18.26
07 72 53 00-0030 EA Double Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000).....	94.92	18.26
07 72 53 00-0031 EA Double Tube, "T2K or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000).....	117.75	18.26
07 72 53 00-0032 EA Triple Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 6000).....	121.60	21.92
07 72 53 00-0033 Tubing For Snow Guard Clamps <small>(07 72 53 00-0026)</small>		
07 72 53 00-0034 LF 1" Outside Diameter Aluminum Tubing For Snow Guard Clamps (Alpine SnowGuards®).....	14.79	4.38
07 72 53 00-0035 LF 1" Outside Diameter Brass Or Stainless Steel Tubing For Snow Guard Clamps (Alpine SnowGuards®)..... Note: Includes end caps, collars and couplings.	28.90	4.38
07 72 56 Snow/Ice Melt Cable <small>(07 72)</small>		
07 72 56 00-0001 Self Regulating Heating Cable For Roofs And Gutters <small>(07 72 56)</small>		
07 72 56 00-0002 LF 12 Watt, 120 Volt, Self Regulating Low Temperature Cable For Roofs And Gutters..... Note: Nickel-coated copper braided cable with weatherproof jacket.	16.89	1.48
07 72 56 00-0003 LF 12 Watt, 208/277 Volt Self Regulating Low Temperature Cable For Roofs And Gutters..... Note: Nickel-coated copper braided cable with weatherproof jacket.	18.13	1.48
07 72 56 00-0004 EA Power Connection, End Seal And Warning Labels Kit For Self Regulating Heating Cable For Roofs And Gutters.....	293.31	111.08
07 72 56 00-0005 EA Splice Kit For Self Regulating Heating Cable For Roofs And Gutters.....	222.77	81.46
07 72 56 00-0006 EA Edge Of Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters.....	11.04	4.44
For >5, Deduct	-0.89	
07 72 56 00-0007 EA Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters.....	10.31	4.44
For >5, Deduct	-0.82	
07 72 56 00-0008 EA Downspout Hanger Kit For Self Regulating Heating Cable For Roofs And Gutters.....	67.74	11.11
07 72 56 00-0009 EA 120 Volt AC, Snow Switch, Automatic Control For Melting Snow.....	1,070.02	88.86
07 72 56 00-0010 EA Automatic Gutter Ice Melting Control.....	1,464.60	111.08
07 72 63 Waste Containment Assemblies <small>(07 72)</small>		
07 72 63 00-0001 Rooftop Oil And Grease Containment System <small>(07 72 63)</small>		
07 72 63 00-0002 Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD-E) <small>(07 72 63 00-0001)</small>		
07 72 63 00-0003 EA 48" Length, 48" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100-E).....	2,990.11	226.45
07 72 63 00-0004 EA 60" Length, 60" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101-E).....	3,343.93	226.45
07 72 63 00-0005 EA 60" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106-E).....	4,105.36	235.51
07 72 63 00-0006 EA 72" Length, 72" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102-E).....	4,085.13	235.51
07 72 63 00-0007 EA 72" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103-E).....	5,340.06	254.76
07 72 63 00-0008 EA 72" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111-E).....	4,161.98	254.76
07 72 63 00-0009 EA 90" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105-E).....	4,637.22	301.86
07 72 63 00-0010 EA 108" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112-E).....	6,835.56	377.38
07 72 63 00-0011 EA 120" Length, 120" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107-E).....	8,493.96	377.38
07 72 63 00-0012 EA 144" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113-E).....	10,769.21	377.38
07 72 63 00-0013 Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD) <small>(07 72 63 00-0001)</small>		
07 72 63 00-0014 EA 48" Length, 48" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100).....	3,682.69	226.45
07 72 63 00-0015 EA 60" Length, 60" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101).....	4,142.82	226.45
07 72 63 00-0016 EA 60" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106).....	5,121.65	235.51
07 72 63 00-0017 EA 72" Length, 72" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102).....	5,212.68	235.51
07 72 63 00-0018 EA 72" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103).....	7,448.46	254.76
07 72 63 00-0019 EA 72" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111).....	8,171.49	254.76
07 72 63 00-0020 EA 90" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105).....	7,589.99	301.86

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 63 00-0021 EA 108" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112).....	8,544.52	377.38
07 72 63 00-0022 EA 120" Length, 120" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107).....	10,703.47	377.38
07 72 63 00-0023 EA 144" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113).....	13,661.29	377.38
07 72 63 00-0024 Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63)</small> Note: Includes removing old filters and installing new filters.		
07 72 63 00-0025 Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0024)</small>		
07 72 63 00-0026 Light Duty, Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0025)</small>		
07 72 63 00-0027 SET 48" Length, 48" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-E).....	246.93	
07 72 63 00-0028 SET 60" Length, 60" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-E).....	348.06	
07 72 63 00-0029 SET 60" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-E).....	499.73	
07 72 63 00-0030 SET 72" Length, 72" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-E).....	460.49	
07 72 63 00-0031 SET 72" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-E).....	864.99	
07 72 63 00-0032 SET 72" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-E).....	875.09	
07 72 63 00-0033 SET 90" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-E).....	674.07	
07 72 63 00-0034 SET 108" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-E).....	876.32	
07 72 63 00-0035 SET 120" Length, 120" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-E).....	1,285.86	
07 72 63 00-0036 SET 144" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-E).....	1,695.41	
07 72 63 00-0037 Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0024)</small>		
07 72 63 00-0038 Light Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0037)</small>		
07 72 63 00-0039 SET 48" Length, 48" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-EC).....	516.71	
07 72 63 00-0040 SET 60" Length, 60" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-EC).....	688.63	
07 72 63 00-0041 SET 60" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-EC).....	1,002.11	
07 72 63 00-0042 SET 72" Length, 72" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-EC).....	932.53	
07 72 63 00-0043 SET 72" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-EC).....	1,797.13	
07 72 63 00-0044 SET 72" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-EC).....	1,807.23	
07 72 63 00-0045 SET 90" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-EC).....	1,338.22	
07 72 63 00-0046 SET 108" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-EC).....	1,808.45	
07 72 63 00-0047 SET 120" Length, 120" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-EC).....	2,652.81	
07 72 63 00-0048 SET 144" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-EC).....	3,532.58	
07 72 63 00-0049 Heavy Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0037)</small>		
07 72 63 00-0050 SET 48" Length, 48" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-C).....	643.12	
07 72 63 00-0051 SET 60" Length, 60" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-C).....	799.86	
07 72 63 00-0052 SET 60" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-C).....	1,174.01	
07 72 63 00-0053 SET 72" Length, 72" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-C).....	1,109.50	
07 72 63 00-0054 SET 72" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-C).....	2,166.22	
07 72 63 00-0055 SET 72" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-C).....	2,156.11	
07 72 63 00-0056 SET 90" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-C).....	1,570.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 63 00-0057 SET 108" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-C).....	2,177.54	
07 72 63 00-0058 SET 120" Length, 120" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-C).....	3,057.31	
07 72 63 00-0059 SET 144" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-C).....	4,255.61	

07 73 Roof Protection Board (07 70)

07 73 00 00-0001 Roof Protection Board (07 73)

Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements.

07 73 00 00-0002 Cold Adhesive Applied, Roof Protection Board (Georgia-Pacific DensDeck®) (07 73 00 00-0001)

07 73 00 00-0003 SF 1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®).....	3.90	0.56
<i>For No Adhesive, Deduct</i>	-0.88	
07 73 00 00-0004 SF 1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®).....	4.40	0.62
<i>For No Adhesive, Deduct</i>	-0.90	
07 73 00 00-0005 SF 5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®).....	4.63	0.68
<i>For No Adhesive, Deduct</i>	-0.92	
07 73 00 00-0006 SF 1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime).....	3.95	0.56
<i>For No Adhesive, Deduct</i>	-0.88	
07 73 00 00-0007 SF 1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime).....	4.48	0.62
<i>For No Adhesive, Deduct</i>	-0.90	
07 73 00 00-0008 SF 5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime).....	4.71	0.68
<i>For No Adhesive, Deduct</i>	-0.92	

07 73 00 00-0009 Hot-Mopped, Roof Protection Board (Georgia-Pacific DensDeck®) (07 73 00 00-0001)

07 73 00 00-0010 SF 1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®).....	3.74	0.56
07 73 00 00-0011 SF 1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®).....	4.26	0.62
07 73 00 00-0012 SF 5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®).....	4.52	0.68
07 73 00 00-0013 SF 1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime).....	3.80	0.56
07 73 00 00-0014 SF 1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime).....	4.35	0.62
07 73 00 00-0015 SF 5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime).....	4.60	0.68

07 73 00 00-0016 Mechanically Fastened, Roof Protection Board (Georgia-Pacific DensDeck®) (07 73 00 00-0001)

Note: Mechanically fastened to wood or steel.

07 73 00 00-0017 SF 1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®).....	3.55	0.56
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.58	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.51	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 73 00 00-0018 SF 1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®).....	4.06	0.62
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.66	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.59	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	
07 73 00 00-0019 SF 5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®).....	4.28	0.68
<i>For Mechanically Fastened To Concrete, Add</i>	1.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.86	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.72	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.65	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 73	Roof Protection Board



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 73 00 00-0020	SF	1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime)	3.61	0.56	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.51		
		<i>For Mechanically Fastened To Gypsum, Add</i>	1.86		
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56		
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.58		
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19		
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83		
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.51		
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28		
07 73 00 00-0021	SF	1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime)	4.14	0.62	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.51		
		<i>For Mechanically Fastened To Gypsum, Add</i>	1.86		
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56		
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.66		
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19		
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83		
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.59		
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28		
07 73 00 00-0022	SF	5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime)	4.37	0.68	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.51		
		<i>For Mechanically Fastened To Gypsum, Add</i>	1.86		
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.56		
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.72		
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.19		
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.83		
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.65		
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.28		

07 76 Roof Pavers (07 70)**07 76 16 Roof Decking Pavers** (07 76)**07 76 16 00-0001 Roof Pavers** (07 76 16)

Note: For walkway application over roofing system.

07 76 16 00-0002	SF	Up To 100 SF, 2" Concrete Roof Paver	14.13	7.21
		<i>For 1-1/2" Thickness, Deduct</i>	-1.41	
		<i>For 2-1/2" Thickness, Add</i>	1.65	
		<i>For 3" Thickness, Add</i>	3.30	
07 76 16 00-0003	SF	>100 To 200 SF, 2" Concrete Roof Paver	12.78	5.44
		<i>For 1-1/2" Thickness, Deduct</i>	-1.28	
		<i>For 2-1/2" Thickness, Add</i>	1.50	
		<i>For 3" Thickness, Add</i>	3.00	
07 76 16 00-0004	SF	>200 To 400 SF, 2" Concrete Roof Paver	11.98	4.33
		<i>For 1-1/2" Thickness, Deduct</i>	-1.20	
		<i>For 2-1/2" Thickness, Add</i>	1.41	
		<i>For 3" Thickness, Add</i>	2.82	
07 76 16 00-0005	SF	>400 To 1,000 SF, 2" Concrete Roof Paver	11.45	3.78
		<i>For 1-1/2" Thickness, Deduct</i>	-1.15	
		<i>For 2-1/2" Thickness, Add</i>	1.34	
		<i>For 3" Thickness, Add</i>	2.69	
07 76 16 00-0006	SF	>1,000 SF, 2" Concrete Roof Paver	10.82	3.44
		<i>For 1-1/2" Thickness, Deduct</i>	-1.08	
		<i>For 2-1/2" Thickness, Add</i>	1.27	
		<i>For 3" Thickness, Add</i>	2.54	

07 76 16 00-0007 Roof Paver Pedestal (07 76 16)

07 76 16 00-0008	EA	2" To 3" High Adjustable Roof Paver Pedestal, 2" Base, 2" Top (Hanover Elevator)	24.74	1.13
07 76 16 00-0009	EA	3" To 4-3/4" High Adjustable Roof Paver Pedestal, 3" Base, 3" Top (Hanover Elevator)	25.86	1.13
07 76 16 00-0010	EA	4-3/4" To 7-3/4" High Adjustable Roof Paver Pedestal, 4" Base, 4" Top (Hanover Elevator)	27.00	1.13
07 76 16 00-0011	EA	Adjustable Roof Paver Pedestal Coupler, Adds 2-1/2" To 4" (Hanover Elevator)	13.79	1.13
07 76 16 00-0012	EA	Stay Bar, Used With Roof Paver Pedestals >16' High (Hanover Elevator)	12.14	1.13
07 76 16 00-0013	EA	5/8" High Tab Roof Paver Pedestal (Hanover High Tab Pedestal)	12.44	1.13
		Note: Stackable.		
07 76 16 00-0014	EA	1/16" And 1/8" Flexible Leveling Plates For Roof Paver Pedestal	7.02	1.13
		Note: Used with High Tab and Elevator pedestals.		
07 76 16 00-0015	EA	Roof Paver Leveling System, Twist To Adjust Pitch (Hanover Compensator)	9.25	1.13
		Note: Each Compensator levels 1/8" of slope and are stackable. Used with High Tab and Elevator pedestals.		

07 76 19 Composite Insulation Concrete Protection Board (07 76)

Note: Manufactured by T. Clear Corp. 25 year warranty.

07 76 19 00-0001 Composite Insulation Concrete Protection Board (07 76 19)

Note: Manufactured by T. Clear Corp. 25 year warranty.

07 76 19 00-0002	SF	2" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF	5.82	
		<i>For 20 Year Warranty, Deduct</i>	-0.35	
		<i>For 15 Year Warranty, Deduct</i>	-0.70	
		<i>For 10 Year Warranty, Deduct</i>	-0.95	
		<i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	0.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 76 19 00-0003 SF 3" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF	7.60	
<i>For 20 Year Warranty, Deduct</i>	-0.50	
<i>For 15 Year Warranty, Deduct</i>	-1.00	
<i>For 10 Year Warranty, Deduct</i>	-1.35	
<i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	0.10	
07 76 19 00-0004 SF 2" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF	8.93	
<i>For 20 Year Warranty, Deduct</i>	-0.58	
<i>For 15 Year Warranty, Deduct</i>	-1.16	
<i>For 10 Year Warranty, Deduct</i>	-1.56	
<i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	0.10	
07 76 19 00-0005 SF 3" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF	10.80	
<i>For 20 Year Warranty, Deduct</i>	-0.72	
<i>For 15 Year Warranty, Deduct</i>	-1.45	
<i>For 10 Year Warranty, Deduct</i>	-1.97	
<i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	0.10	

07 80 Fire and Smoke Protection (07)

07 81 Applied Fireproofing (07 80)

Note: Includes bonding agents as required.

07 81 16 Cementitious Fireproofing (07 81)

07 81 16 00-0001 Monokote Fireproofing (07 81 16)

07 81 16 00-0002 SF Monokote Fireproofing For Ceiling/Decking, Per Inch Of Thickness	2.14	0.75
07 81 16 00-0003 SF Monokote Fireproofing For Structural Steel, Per Inch Of Thickness	2.98	1.12

07 81 16 00-0004 Gunite Fireproofing (07 81 16)

07 81 16 00-0005 SF 1" Thick, Non Reinforced, Gunite Fireproofing	3.50	0.74
07 81 16 00-0006 SF 1" Thick, Reinforced, Gunite Fireproofing	5.00	0.74

07 81 23 Intumescent Fireproofing (07 81)

07 81 23 00-0001 Intumescent Thin Film Fireproofing (Albi Clad TF) (07 81 23)

07 81 23 00-0002 Intumescent Thin Film Fireproofing For Beams (Albi Clad TF) (07 81 23 00-0001)

Note: Excludes primer.

07 81 23 00-0003 SF 1 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF)	16.84	
<i>For >10,000, Deduct</i>	-1.62	
07 81 23 00-0004 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF)	27.09	
<i>For >10,000, Deduct</i>	-2.64	

07 81 23 00-0005 Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) (07 81 23 00-0001)

Note: Excludes primer.

07 81 23 00-0006 SF 1 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	10.92	
<i>For >10,000, Deduct</i>	-1.02	
07 81 23 00-0007 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	24.26	
<i>For >10,000, Deduct</i>	-2.35	
07 81 23 00-0008 SF 2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	54.97	
<i>For >10,000, Deduct</i>	-5.41	
07 81 23 00-0009 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	75.68	
<i>For >10,000, Deduct</i>	-7.48	
07 81 23 00-0010 SF 3 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	96.41	
<i>For >10,000, Deduct</i>	-9.55	
07 81 23 00-0011 SF 3-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	117.17	
<i>For >10,000, Deduct</i>	-11.62	

07 81 23 00-0012 Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) (07 81 23 00-0001)

Note: Excludes primer.

07 81 23 00-0013 SF 1 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	22.10	
<i>For >10,000, Deduct</i>	-2.14	
07 81 23 00-0014 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	41.12	
<i>For >10,000, Deduct</i>	-4.03	
07 81 23 00-0015 SF 2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	65.29	
<i>For >10,000, Deduct</i>	-6.45	
07 81 23 00-0016 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	91.19	
<i>For >10,000, Deduct</i>	-9.03	
07 81 23 00-0017 SF 3 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	115.36	
<i>For >10,000, Deduct</i>	-11.44	

07 81 23 00-0018 Intumescent Thin Film Fireproofing (Albi Clad FP) (07 81 23)

07 81 23 00-0019 Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) (07 81 23 00-0018)

Note: Excludes primer.

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 81 Applied Fireproofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 81 23 00-0020 SF 1 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	10.70	
For >10,000, Deduct	-1.02	
07 81 23 00-0021 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	24.42	
For >10,000, Deduct	-2.39	
07 81 23 00-0022 SF 2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	56.01	
For >10,000, Deduct	-5.54	
07 81 23 00-0023 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	77.32	
For >10,000, Deduct	-7.67	
07 81 23 00-0024 SF 3 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	98.64	
For >10,000, Deduct	-9.80	
07 81 33 Mineral-Fiber Fireproofing (07 81)		
07 81 33 00-0001 Cellulose Fireproofing (07 81 33)		
07 81 33 00-0002 SF Cellulose Fireproofing, Per Inch Of Thickness	2.56	0.74
07 84 Firestopping (07 80)		
07 84 13 Penetration Firestopping (07 84)		
07 84 13 16 Penetration Firestopping Devices (07 84 13)		
07 84 13 16-0001 Firestopping Systems For Cable Penetrations (07 84 13 16)		
07 84 13 16-0002 Intumescent Firestop Cable Sleeve For New Installations (07 84 13 16-0001)		
Note: Includes putty, escutcheon plates, gaskets and bushings.		
07 84 13 16-0003 EA 1" Diameter Intumescent Firestop Sleeve (STI FS100)	65.64	
07 84 13 16-0004 EA 2" Diameter Intumescent Firestop Sleeve (STI FS201)	87.60	
07 84 13 16-0005 EA 4" Diameter Intumescent Firestop Sleeve (STI FS401)	141.02	
07 84 13 16-0006 Intumescent Firestop Cable Pathway For New Or Existing Cable Installations (07 84 13 16-0001)		
Note: Includes pathway, putty and wall/floor mounting plates.		
07 84 13 16-0007 EA 1-1/64" x 1-1/64" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZD22)	118.16	
07 84 13 16-0008 EA 3" x 3" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZDP33FWS)	206.14	
07 84 13 16-0009 EA 4" x 4-5/8" Intumescent Firestop Cable Pathway Through Up To 10" Thick Walls (STI EZDP44)	376.04	
07 84 13 16-0010 3M Intumescent Firestopping Multi-Trade Pass Through Device (07 84 13 16)		
07 84 13 16-0011 EA 2-1/2" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD)	266.66	
07 84 13 16-0012 EA 4" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP4SD)	247.26	
07 84 13 16-0013 EA 4" Diameter Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD)	254.63	
07 84 13 16-0014 Intumescent Firestopping Pipe Collar (07 84 13 16)		
07 84 13 16-0015 EA 1-1/2" Intumescent Firestop Pipe Collar (3M ULTRAPPD1.5)	46.30	14.72
07 84 13 16-0016 EA 2" Intumescent Firestop Pipe Collar (3M ULTRAPPD2.0)	54.43	14.72
07 84 13 16-0017 EA 3" Intumescent Firestop Pipe Collar (3M ULTRAPPD3.0)	62.90	16.19
07 84 13 16-0018 EA 4" Intumescent Firestop Pipe Collar (3M ULTRAPPD4.0)	95.23	18.40
07 84 13 16-0019 EA 8" Intumescent Firestop Pipe Collar (Hilti CP644 8")	436.34	22.08
07 84 13 16-0020 EA 10" Intumescent Firestop Pipe Collar (Hilti CP644 10")	561.77	24.28
07 84 13 16-0021 Fire Rated Enclosures (Fire Rated Product Specialties Corp.) (07 84 13 16)		
Note: Includes fasteners. Excludes additional perimeter caulk where required. See CSI section 07 84 43 00-0001 for perimeter sealant caulk where required.		
07 84 13 16-0022 EA 12.2" Wide x 20.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9)	171.13	
Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.		
07 84 13 16-0023 EA 15.2" Wide x 16.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-15-16-9)	181.29	
Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.		
07 84 13 16-0024 EA 11.8" Wide x 19.8" Long x 9.12" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9-EXH)	354.82	
Note: Includes 4" duct connector. For use with bathroom ventilation and exhaust fans.		
07 84 13 16-0025 EA 14.0" Wide x 14.0" Long x 3.2" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-14-14-3)	225.97	
Note: Used for shut-off valves, shower and tub valves, washer boxes, icemaker water feeds, speakers, controls, junction boxes, etc.		
07 84 13 16-0026 Intumescent Firestopping Wrap Strips (07 84 13 16)		
07 84 13 16-0027 LF 1/8" Thick, 1-1/2" Wide, Intumescent Firestopping Wrap Strip (STI SpecSeal SSW Series)	6.54	
07 84 13 19 Penetration Firestopping Caulk (07 84 13)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 84 13 19-0001			Intumescent Firestopping For Sealing Pipe Penetrations (3M CP 25WB+)⁰⁷ <small>^{84 13 19}</small> Note: Includes firestop caulk and batt for floor or ceiling penetration or one side of a wall penetration. 1/2" thick caulk for annular spaces 1" and less. 1" thick caulk for annular spaces 1-1/4" or more.		
07 84 13 19-0002	EA		1" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	24.41	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.07	
07 84 13 19-0003	EA		1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	30.00	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.37	
07 84 13 19-0004	EA		1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	29.77	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.28	
07 84 13 19-0005	EA		1-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	29.38	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.12	
07 84 13 19-0006	EA		2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	34.70	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.79	
07 84 13 19-0007	EA		2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	34.46	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.69	
07 84 13 19-0008	EA		2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	34.08	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.54	
07 84 13 19-0009	EA		2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	33.48	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.30	
07 84 13 19-0010	EA		2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	32.96	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.09	
07 84 13 19-0011	EA		2-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	42.09	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.32	
07 84 13 19-0012	EA		2-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	41.86	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.23	
07 84 13 19-0013	EA		2-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	41.47	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.08	
07 84 13 19-0014	EA		2-1/2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	40.87	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.84	
07 84 13 19-0015	EA		2-1/2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	40.36	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.63	
07 84 13 19-0016	EA		2-1/2" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	39.14	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.14	
07 84 13 19-0017	EA		3" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	57.40	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	3.57	
07 84 13 19-0018	EA		3" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	53.20	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.89	
07 84 13 19-0019	EA		3" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	52.82	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.74	
07 84 13 19-0020	EA		3" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	52.21	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.49	
07 84 13 19-0021	EA		3" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	51.70	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.29	
07 84 13 19-0022	EA		3" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	50.49	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.80	
07 84 13 19-0023	EA		3" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	48.92	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.18	
07 84 13 19-0024	EA		4" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	77.06	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	6.58	
07 84 13 19-0025	EA		4" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	76.63	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	6.41	
07 84 13 19-0026	EA		4" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	75.94	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	6.14	
07 84 13 19-0027	EA		4" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	74.85	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	5.70	
07 84 13 19-0028	EA		4" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	73.93	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	5.33	
07 84 13 19-0029	EA		4" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	66.79	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	2.48	
07 84 13 19-0030	EA		4" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	65.23	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.85	
07 84 13 19-0031	EA		4" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	62.84	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.90	
07 84 13 19-0032	EA		6" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	122.81	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	15.19	
07 84 13 19-0033	EA		6" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	122.39	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	15.02	
07 84 13 19-0034	EA		6" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	121.69	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	14.74	
07 84 13 19-0035	EA		6" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	120.61	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	14.31	
07 84 13 19-0036	EA		6" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	119.69	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	13.94	
07 84 13 19-0037	EA		6" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	117.51	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	13.07	
07 84 13 19-0038	EA		6" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	114.68	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	11.94	
07 84 13 19-0039	EA		6" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	110.40	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	10.22	
07 84 13 19-0040	EA		6" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	94.26	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	3.77	
07 84 13 19-0041	EA		8" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	162.98	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	23.99	

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 84 Firestopping**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0042	EA	8" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	158.68 22.27	
07 84 13 19-0043	EA	8" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	150.08 18.83	
07 84 13 19-0044	EA	8" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	114.99 4.79	
07 84 13 19-0045	EA	10" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	207.01 34.32	
07 84 13 19-0046	EA	10" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	181.49 24.12	
07 84 13 19-0047	EA	10" Diameter Hole With 8" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	136.46 6.10	
07 84 13 19-0048		Smoke, Noise And Infectious/Dust Control Sealant For Sealing Pipe Penetrations <small>(07 84 13 19)</small>		
		Note: Includes sealant and fiberglass or mineral wool batt for floor, ceiling or wall penetrations.		
07 84 13 19-0049	EA	1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	29.40	
07 84 13 19-0050	EA	1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	29.31	
07 84 13 19-0051	EA	1-1/2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	29.18	
07 84 13 19-0052	EA	2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	33.39	
07 84 13 19-0053	EA	2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	33.30	
07 84 13 19-0054	EA	2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	33.17	
07 84 13 19-0055	EA	2" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	32.99	
07 84 13 19-0056	EA	2" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	32.82	
07 84 13 19-0057	EA	2.5" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	39.92	
07 84 13 19-0058	EA	2.5" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	39.84	
07 84 13 19-0059	EA	2.5" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	39.71	
07 84 13 19-0060	EA	2.5" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	39.52	
07 84 13 19-0061	EA	2.5" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	39.36	
07 84 13 19-0062	EA	2.5" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	38.94	
07 84 13 19-0063	EA	3" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	50.17	
07 84 13 19-0064	EA	3" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	50.08	
07 84 13 19-0065	EA	3" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	49.96	
07 84 13 19-0066	EA	3" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	49.77	
07 84 13 19-0067	EA	3" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	49.61	
07 84 13 19-0068	EA	3" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	49.19	
07 84 13 19-0069	EA	3" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	48.61	
07 84 13 19-0070	EA	4" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	63.74	
07 84 13 19-0071	EA	4" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	63.65	
07 84 13 19-0072	EA	4" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	63.53	
07 84 13 19-0073	EA	4" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	63.32	
07 84 13 19-0074	EA	4" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	63.13	
07 84 13 19-0075	EA	4" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	62.71	
07 84 13 19-0076	EA	4" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	62.18	
07 84 13 19-0077	EA	4" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	61.35	
07 84 13 19-0078	EA	6" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	92.08	
07 84 13 19-0079	EA	6" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	91.99	
07 84 13 19-0080	EA	6" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	91.87	
07 84 13 19-0081	EA	6" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	91.68	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0082	EA			6" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	91.52	
07 84 13 19-0083	EA			6" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	91.10	
07 84 13 19-0084	EA			6" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	90.52	
07 84 13 19-0085	EA			6" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	89.74	
07 84 13 19-0086	EA			6" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	88.04	
07 84 13 19-0087	EA			8" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	114.45	
07 84 13 19-0088	EA			8" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	113.66	
07 84 13 19-0089	EA			8" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	111.96	
07 84 13 19-0090	EA			8" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	107.16	
07 84 13 19-0091	EA			10" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	137.57	
07 84 13 19-0092	EA			10" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	132.76	
07 84 13 19-0093	EA			10" Diameter Hole With 8" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	126.40	

07 84 16 Annular Space Firestopping Protection (07 84)

07 84 16 00-0001				Intumescent Firestopping For Electrical Outlet Boxes (07 84 16)		
07 84 16 00-0002				Intumescent Putty Pads For Wrapping Outlet Box Exteriors (07 84 16 00-0001)		
07 84 16 00-0003	EA			1 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	37.14	
07 84 16 00-0004	EA			2 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	52.47	
07 84 16 00-0005	EA			3 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	54.89	
07 84 16 00-0006	EA			4 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	57.32	
07 84 16 00-0007	EA			5 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	59.74	
07 84 16 00-0008	EA			6 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	75.07	
07 84 16 00-0009				Intumescent Firestop Gasket For Wall Plates (07 84 16 00-0001)		
07 84 16 00-0010	EA			Single Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66276).....	15.23	
07 84 16 00-0011	EA			Double Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66274).....	15.78	
07 84 16 00-0012	EA			Single Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66272).....	14.77	
07 84 16 00-0013	EA			Double Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66270).....	15.82	
07 84 16 00-0014	EA			Single Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66266).....	15.41	
07 84 16 00-0015	EA			Double Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66265).....	14.84	
07 84 16 00-0016				Intumescent Fire Barrier Pillows For Sealing Large Openings (07 84 16)		
07 84 16 00-0017	EA			2" x 4" x 9" Intumescent Fire Barrier Pillow (3M FB249).....	36.80	
07 84 16 00-0018	EA			2" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB269).....	39.45	
07 84 16 00-0019	EA			3" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB369).....	42.72	
07 84 16 00-0020				Intumescent Fire Barrier Sheets For Sealing Large Openings (07 84 16)		
Note: Price includes intumescent sheet, mounting fasteners and caulk for sealing one side of an opening.						
07 84 16 00-0021	EA			16" x 28" Intumescent Firestop Sheet (3M CS-195+16x28).....	338.16	
07 84 16 00-0022	EA			36" x 24" Intumescent Firestop Sheet (3M CS-195+3x2).....	473.87	
07 84 16 00-0023	EA			36" x 36" Intumescent Firestop Sheet (3M CS-195+3x3).....	638.91	
07 84 16 00-0024				Endothermic Mat Wrap Fire Barrier (07 84 16)		
Note: Price includes endothermic mat wrap and sealant. Excludes cavity fill material; putty or fireproof caulk/sealant. See CSI section 07 84 16 00-0026 for filling openings.						
07 84 16 00-0025	SF			0.408" Thick Aluminum Foil Faced Endothermic Mat (3M Interam E-5A-4).....	51.83	
07 84 16 00-0026				Firestopping Caulk For Filling Opening (07 84 16)		
07 84 16 00-0027	GAL			Latex Based Intumescent Fire Barrier Sealant (3M CP-25WB+).....	142.56	
07 84 16 00-0028				Firestopping Mortar For Filling Opening (07 84 16)		
07 84 16 00-0029	CF			Light-Weight Portland Cement-Based Firestop Mortar (STI SpecSeal SSM Series).....	169.01	

07 84 23 Silicone Firestopping Foams (07 84)

07 84 23 00-0001				Silicone RTV Foam Seal For Blank Openings (07 84 23)		
07 84 23 00-0002	EA			2" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	46.77	
07 84 23 00-0003	EA			4" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	112.26	
07 84 23 00-0004	EA			6" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	198.66	
07 84 23 00-0005	EA			8" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	303.33	

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 84 Firestopping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 23 00-0006	EA		10" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	432.41	
07 84 23 00-0007	EA		12" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	579.85	
07 84 43 Joint Firestopping^(07 84)					
07 84 43 00-0001 Intumescent Firestopping Sealant For Joints (3M CP 25WB+)^(07 84 43)					
07 84 43 00-0002	CLF		1/4" x 1/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	418.58	109.08
			<i>For Up To 6 CLF, Add</i>	23.21	
			<i>For >30 CLF, Deduct</i>	-25.50	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	13.70	
07 84 43 00-0003	CLF		1/4" x 3/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	464.29	109.08
			<i>For Up To 4 CLF, Add</i>	26.64	
			<i>For >20 CLF, Deduct</i>	-30.07	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	20.56	
07 84 43 00-0004	CLF		1/4" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	522.09	112.71
			<i>For Up To 3 CLF, Add</i>	30.67	
			<i>For >15 CLF, Deduct</i>	-35.24	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	27.41	
07 84 43 00-0005	CLF		3/8" x 3/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	544.94	112.71
			<i>For Up To 2.5 CLF, Add</i>	32.39	
			<i>For >13 CLF, Deduct</i>	-37.53	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	30.84	
07 84 43 00-0006	CLF		3/8" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	613.46	112.71
			<i>For Up To 2 CLF, Add</i>	37.53	
			<i>For >10 CLF, Deduct</i>	-44.38	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	41.12	
07 84 43 00-0007	CLF		3/8" x 5/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	681.99	112.71
			<i>For Up To 1.5 CLF, Add</i>	42.67	
			<i>For >8 CLF, Deduct</i>	-51.23	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	51.40	
07 84 43 00-0008	CLF		3/8" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	762.64	117.56
			<i>For Up To 1.3 CLF, Add</i>	48.41	
			<i>For >7 CLF, Deduct</i>	-58.69	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	61.68	
07 84 43 00-0009	CLF		1/2" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	716.96	117.56
			<i>For Up To 1.4 CLF, Add</i>	44.99	
			<i>For >7.5 CLF, Deduct</i>	-54.12	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	54.82	
07 84 43 00-0010	CLF		1/2" x 5/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	820.46	121.20
			<i>For Up To 1.15 CLF, Add</i>	52.44	
			<i>For >6 CLF, Deduct</i>	-63.87	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	68.53	
07 84 43 00-0011	CLF		1/2" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	911.83	121.20
			<i>For Up To 1 CLF, Add</i>	59.30	
			<i>For >5 CLF, Deduct</i>	-73.00	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	82.23	
07 84 43 00-0012	CLF		1/2" x 7/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	1,015.32	124.83
			<i>For Up To 0.8 CLF, Add</i>	66.76	
			<i>For >4.5 CLF, Deduct</i>	-82.75	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	95.94	
07 84 43 00-0013	CLF		1/2" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	1,118.81	129.68
			<i>For Up To 0.75 CLF, Add</i>	74.22	
			<i>For >4 CLF, Deduct</i>	-92.49	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	109.65	
07 84 43 00-0014	CLF		3/4" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	1,222.30	133.31
			<i>For Up To 0.65 CLF, Add</i>	81.67	
			<i>For >3.5 CLF, Deduct</i>	-102.23	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	123.35	
07 84 43 00-0015	CLF		3/4" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	1,532.77	145.44
			<i>For Up To 0.5 CLF, Add</i>	104.05	
			<i>For >2.5 CLF, Deduct</i>	-131.46	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	164.47	
07 84 43 00-0016	CLF		1" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	1,946.74	161.19
			<i>For Up To 0.4 CLF, Add</i>	133.89	
			<i>For >2 CLF, Deduct</i>	-170.43	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	219.29	
07 84 43 00-0017 Latex-Based, Intumescent Firestop Sealant For Joints (STI SSS Series)^(07 84)					
07 84 43 00-0018	CLF		1/4" x 1/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series).....	431.31	109.08
			<i>For Up To 6 CLF, Add</i>	24.17	
			<i>For >30 CLF, Deduct</i>	-26.77	
07 84 43 00-0019	CLF		1/4" x 3/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series).....	483.34	109.08
			<i>For Up To 4 CLF, Add</i>	28.07	
			<i>For >20 CLF, Deduct</i>	-31.97	
07 84 43 00-0020	CLF		1/4" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series).....	547.50	112.71
			<i>For Up To 3 CLF, Add</i>	32.58	
			<i>For >15 CLF, Deduct</i>	-37.78	
07 84 43 00-0021	CLF		3/8" x 3/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series).....	573.52	112.71
			<i>For Up To 2.5 CLF, Add</i>	34.53	
			<i>For >13 CLF, Deduct</i>	-40.38	
07 84 43 00-0022	CLF		3/8" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series).....	651.58	112.71
			<i>For Up To 2 CLF, Add</i>	40.38	
			<i>For >10 CLF, Deduct</i>	-48.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 43 00-0023 CLF 3/8" x 5/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1.5 CLF, Add</i> <i>For >8 CLF, Deduct</i>	729.63 46.24 -56.00	112.71
07 84 43 00-0024 CLF 3/8" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1.3 CLF, Add</i> <i>For >7 CLF, Deduct</i>	819.81 52.70 -64.41	117.56
07 84 43 00-0025 CLF 1/2" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1.4 CLF, Add</i> <i>For >7.5 CLF, Deduct</i>	767.77 48.80 -59.20	117.56
07 84 43 00-0026 CLF 1/2" x 5/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1.15 CLF, Add</i> <i>For >6 CLF, Deduct</i>	883.98 57.21 -70.22	121.20
07 84 43 00-0027 CLF 1/2" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1 CLF, Add</i> <i>For >5 CLF, Deduct</i>	988.06 65.01 -80.63	121.20
07 84 43 00-0028 CLF 1/2" x 7/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.8 CLF, Add</i> <i>For >4.5 CLF, Deduct</i>	1,104.25 73.43 -91.64	124.83
07 84 43 00-0029 CLF 1/2" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.75 CLF, Add</i> <i>For >4 CLF, Deduct</i>	1,220.44 81.84 -102.65	129.68
07 84 43 00-0030 CLF 3/4" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.65 CLF, Add</i> <i>For >3.5 CLF, Deduct</i>	1,336.63 90.25 -113.67	133.31
07 84 43 00-0031 CLF 3/4" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.5 CLF, Add</i> <i>For >2.5 CLF, Deduct</i>	1,685.22 115.48 -146.71	145.44
07 84 43 00-0032 CLF 1" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.4 CLF, Add</i> <i>For >2 CLF, Deduct</i>	2,150.00 149.13 -190.76	161.19
07 84 43 00-0033 Passive Smoke And Fire Protection Sealant For Joints (STI ES Series) ^{(07 84}		
⁴³⁾ 07 84 43 00-0034 CLF 1/4" x 1/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 6 CLF, Add</i> <i>For >30 CLF, Deduct</i>	381.06 20.40 -21.74	109.08
07 84 43 00-0035 CLF 1/4" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 4 CLF, Add</i> <i>For >20 CLF, Deduct</i>	407.98 22.42 -24.44	109.08
07 84 43 00-0036 CLF 1/4" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 3 CLF, Add</i> <i>For >15 CLF, Deduct</i>	447.01 25.04 -27.73	112.71
07 84 43 00-0037 CLF 3/8" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 2.5 CLF, Add</i> <i>For >13 CLF, Deduct</i>	460.47 26.05 -29.08	112.71
07 84 43 00-0038 CLF 3/8" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 2 CLF, Add</i> <i>For >10 CLF, Deduct</i>	500.85 29.08 -33.12	112.71
07 84 43 00-0039 CLF 3/8" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 1.5 CLF, Add</i> <i>For >8 CLF, Deduct</i>	541.22 32.11 -37.15	112.71
07 84 43 00-0040 CLF 3/8" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 1.3 CLF, Add</i> <i>For >7 CLF, Deduct</i>	593.72 35.74 -41.80	117.56
07 84 43 00-0041 CLF 1/2" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 1.4 CLF, Add</i> <i>For >7.5 CLF, Deduct</i>	566.80 33.72 -39.11	117.56
07 84 43 00-0042 CLF 1/2" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 1.15 CLF, Add</i> <i>For >6 CLF, Deduct</i>	632.76 38.37 -45.10	121.20
07 84 43 00-0043 CLF 1/2" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 1 CLF, Add</i> <i>For >5 CLF, Deduct</i>	686.59 42.40 -50.48	121.20
07 84 43 00-0044 CLF 1/2" x 7/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 0.8 CLF, Add</i> <i>For >4.5 CLF, Deduct</i>	752.55 47.05 -56.47	124.83
07 84 43 00-0045 CLF 1/2" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 0.75 CLF, Add</i> <i>For >4 CLF, Deduct</i>	818.49 51.69 -62.46	129.68
07 84 43 00-0046 CLF 3/4" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 0.65 CLF, Add</i> <i>For >3.5 CLF, Deduct</i>	884.44 56.33 -68.45	133.31

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 84 Firestopping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 43 00-0047 CLF 3/4" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series).....	1,082.30	145.44
For Up To 0.5 CLF, Add	70.26	
For >2.5 CLF, Deduct	-86.41	
07 84 43 00-0048 CLF 1" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series).....	1,346.11	161.19
For Up To 0.4 CLF, Add	88.84	
For >2 CLF, Deduct	-110.37	
07 84 56 Fire Safing (07 84)		
07 84 56 13 Fibrous Fire Safing (07 84 56)		
07 84 56 13-0001 Thermal Barrier Wrap (07 84 56 13)		
Note: Includes cutting wrap to fit pipe or conduit and sealing edges.		
07 84 56 13-0002 SF 1/2" Thick Fire Barrier Plenum Wrap (3M Plenum Wrap 5A).....	11.49	
For Work In Restricted Working Space, Add	1.72	
07 84 56 13-0003 SF 1-1/2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 15A).....	17.71	
Note: Includes cutting wrap to fit pipe or conduit and sealing edges.		
For Work In Restricted Working Space, Add	1.72	
07 84 56 13-0004 SF 2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 20A).....	19.20	
Note: Includes cutting wrap to fit pipe or conduit and sealing edges.		
For Work In Restricted Working Space, Add	1.72	
07 84 56 13-0005 FireMaster Blanket Wrap Fireproofing (07 84 56 13)		
07 84 56 13-0006 SF 1/2" Thermal Ceramics FireMaster Blanket Wrap.....	19.98	11.93
For Work In Restricted Working Space, Add	4.79	
For >500 To 5,000, Deduct	-1.72	
For >5,000, Deduct	-3.08	
07 84 56 13-0007 SF 1" Thermal Ceramics FireMaster Blanket Wrap.....	23.30	11.93
For Work In Restricted Working Space, Add	4.79	
For >500 To 5,000, Deduct	-2.48	
For >5,000, Deduct	-4.31	
07 84 56 13-0008 SF 1-1/2" Thermal Ceramics FireMaster Blanket Wrap.....	26.94	11.93
For Work In Restricted Working Space, Add	4.79	
For >500 To 5,000, Deduct	-3.32	
For >5,000, Deduct	-5.66	
07 84 56 13-0009 SF 2" Thermal Ceramics FireMaster Blanket Wrap.....	30.59	11.93
For Work In Restricted Working Space, Add	4.79	
For >500 To 5,000, Deduct	-4.16	
For >5,000, Deduct	-7.01	
07 90 Joint Protection (07)		
07 91 Preformed Joint Seals (07 90)		
07 91 23 Backer Rods (07 91)		
07 91 23 00-0001 Backer Rods (07 91 23)		
07 91 23 00-0002 LF 1/4" Polyethylene Or Polyurethane Backer Rod.....	1.83	0.56
07 91 23 00-0003 LF 3/8" Polyethylene Or Polyurethane Backer Rod.....	1.96	0.56
07 91 23 00-0004 LF 1/2" Polyethylene Or Polyurethane Backer Rod.....	2.11	0.56
07 91 23 00-0005 LF 5/8" Polyethylene Or Polyurethane Backer Rod.....	2.26	0.56
07 91 23 00-0006 LF 3/4" Polyethylene Or Polyurethane Backer Rod.....	2.35	0.68
07 91 23 00-0007 LF 7/8" Polyethylene Or Polyurethane Backer Rod.....	2.48	0.68
07 91 23 00-0008 LF 1" Polyethylene Or Polyurethane Backer Rod.....	2.75	0.68
07 91 23 00-0009 LF 1-1/4" Polyethylene Or Polyurethane Backer Rod.....	3.04	0.79
07 91 23 00-0010 LF 1-1/2" Polyethylene Or Polyurethane Backer Rod.....	3.40	0.90
07 91 23 00-0011 LF 2" Polyethylene Or Polyurethane Backer Rod.....	4.04	1.01
07 91 23 00-0012 LF 3" Polyethylene Or Polyurethane Backer Rod.....	6.23	1.25
07 91 26 Joint Fillers (07 91)		
07 91 26 00-0001 Butyl Rubber Fillers (07 91 26)		
07 91 26 00-0002 LF 1/4" x 1/4" Butyl Rubber Filler.....	2.61	0.68
For Custom Match Coloring, Add	0.05	
07 91 26 00-0003 LF 1/2" x 1/2" Butyl Rubber Filler.....	7.89	1.93
For Custom Match Coloring, Add	0.19	
07 91 26 00-0004 LF 1/2" x 3/4" Butyl Rubber Filler.....	9.59	2.04
For Custom Match Coloring, Add	0.30	
07 91 26 00-0005 LF 3/4" x 3/4" Butyl Rubber Filler.....	10.48	2.15
07 91 26 00-0006 LF 1" x 1" Butyl Rubber Filler.....	14.13	3.97
07 91 26 00-0007 Closed Cell Neoprene (07 91 26)		
07 91 26 00-0008 CLF 1/8" x 3" Neoprene Gasket Closed Cell, Adhesive.....	450.60	130.67
07 91 26 00-0009 CLF 1/8" x 6" Neoprene Gasket Closed Cell, Adhesive.....	719.72	188.75
07 91 26 00-0010 CLF 1/4" x 3" Neoprene Gasket Closed Cell, Adhesive.....	576.78	161.81
07 91 26 00-0011 CLF 1/4" x 6" Neoprene Gasket Closed Cell, Adhesive.....	661.86	169.84



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	07 91 26 00-0012	CLF		1/2" x 6" Neoprene Gasket Closed Cell, Adhesive	1,010.19	261.33
	07 91 26 00-0013	CLF		1/2" x 9" Neoprene Gasket Closed Cell, Adhesive	1,153.47	283.06
	07 91 26 00-0014	CLF		1/2" x 12" Neoprene Gasket Closed Cell, Adhesive	1,035.50	205.85
07 91 26 00-0015	Closed Cell Polyvinyl Chloride (07 91 26)					
	07 91 26 00-0016	CLF		1/8" x 3" Polyethylene Joint Backing, Closed Cell	456.70	161.81
	07 91 26 00-0017	CLF		1/8" x 6" Polyethylene Joint Backing, Closed Cell	756.28	261.33
	07 91 26 00-0018	CLF		1/4" x 3" Polyethylene Joint Backing, Closed Cell	592.34	223.06
	07 91 26 00-0019	CLF		1/4" x 6" Polyethylene Joint Backing, Closed Cell	700.44	235.51
	07 91 26 00-0020	CLF		1/2" x 6" Polyethylene Joint Backing, Closed Cell	1,067.40	361.20
	07 91 26 00-0021	CLF		1/2" x 9" Polyethylene Joint Backing, Closed Cell	1,238.09	391.99
	07 91 26 00-0022	CLF		1/2" x 12" Polyethylene Joint Backing, Closed Cell	1,621.19	469.89
07 91 26 00-0023	Silicon RTV Foam Penetration Seal (07 91 26)					
	07 91 26 00-0024	CLF		1/4" x 1/2" Silicon RTV Foam Seal	164.85	25.93
	07 91 26 00-0025	CLF		1/2" x 1/2" Silicon RTV Foam Seal	329.69	51.74
	07 91 26 00-0026	CLF		1/2" x 3/4" Silicon RTV Foam Seal	491.63	76.88
	07 91 26 00-0027	CLF		3/4" x 3/4" Silicon RTV Foam Seal	698.71	103.61
	07 91 26 00-0028	CLF		1/8" x 1" Silicon RTV Foam Seal	164.85	25.93
	07 91 26 00-0029	CLF		1/8" x 3" Silicon RTV Foam Seal	491.17	76.66
	07 91 26 00-0030	CLF		1/4" x 3" Silicon RTV Foam Seal	854.88	115.15
	07 91 26 00-0031	CLF		1/4" x 6" Silicon RTV Foam Seal	1,707.75	229.51
	07 91 26 00-0032	CLF		1/2" x 6" Silicon RTV Foam Seal	3,259.52	414.30
	07 91 26 00-0033	CLF		1/2" x 9" Silicon RTV Foam Seal	4,972.56	647.20
	07 91 26 00-0034	CLF		1/2" x 12" Silicon RTV Foam Seal	7,222.79	1,035.57
07 91 26 00-0035	Seals O-Ring Type Cord "J-Seal" (07 91 26)					
	07 91 26 00-0036	LF		1/4" Seals O-Ring Cord, J-Seal	4.83	1.48
	07 91 26 00-0037	LF		1/2" Seals O-Ring Cord, J-Seal	5.12	1.48
	07 91 26 00-0038	LF		3/4" Seals O-Ring Cord, J-Seal	5.38	1.59
	07 91 26 00-0039	LF		1" Seals O-Ring Cord, J-Seal	5.67	1.70
	07 91 26 00-0040	LF		1-1/4" Seals O-Ring Cord, J-Seal	6.07	1.81
	07 91 26 00-0041	LF		1-1/2" Seals O-Ring Cord, J-Seal	6.35	1.81
	07 91 26 00-0042	LF		1-3/4" Seals O-Ring Cord, J-Seal	6.73	1.93
	07 91 26 00-0043	LF		2" Seals O-Ring Cord, J-Seal	6.95	1.93
07 91 33	Expansion Joint Seal Systems (07 91)					
07 91 33 00-0001	Expansion Joint Seal Systems (Wabo®) (07 91 33)					
07 91 33 00-0002	Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® HSeal) (07 91 33 00-0001)					
	Note: Includes a pre-compressed seal, epoxy adhesive and traffic grade elastomeric top coating.					
	07 91 33 00-0003	LF		1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 25EH)	92.08	7.69
	07 91 33 00-0004	LF		3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 40EH)	123.45	8.06
	07 91 33 00-0005	LF		1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 50EH)	156.53	8.42
	07 91 33 00-0006	LF		1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 65EH)	193.32	8.79
	07 91 33 00-0007	LF		1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 75EH)	251.05	9.16
	07 91 33 00-0008	LF		1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 90EH)	288.49	9.52
	07 91 33 00-0009	LF		2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 100EH)	334.92	9.89
07 91 33 00-0010	Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001)					
	Note: Includes preformed neoprene joint seal and lubricant adhesive.					
	07 91 33 00-0011	LF		0.625" Minimum, 1.381" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-162)	46.64	7.69
	07 91 33 00-0012	LF		0.688" Minimum, 1.488" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-175)	50.97	7.80
	07 91 33 00-0013	LF		0.875" Minimum, 1.700" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-200)	61.81	7.91
	07 91 33 00-0014	LF		0.953" Minimum, 1.913" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-225)	65.66	8.06
	07 91 33 00-0015	LF		1.000" Minimum, 2.125" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-250)	70.20	8.16
	07 91 33 00-0016	LF		1.125" Minimum, 2.550" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-300)	86.27	8.27
	07 91 33 00-0017	LF		1.375" Minimum, 2.975" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-350)	106.65	8.42

07 Thermal And Moisture Protection**07 90 Joint Protection****07 91 Preformed Joint Seals**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 33 00-0018 LF 1.625" Minimum, 3.400" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-400).....	126.28	8.79
07 91 33 00-0019 LF 1.687" Minimum, 4.250" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-500).....	143.06	9.16
07 91 33 00-0020 Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001) Note: Includes preformed Santoprene® joint seal and lubricant adhesive.		
07 91 33 00-0021 LF 0.500" Minimum, 1.500" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-100).....	38.89	7.69
07 91 33 00-0022 LF 0.688" Minimum, 1.938" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-225).....	50.80	8.06
07 91 33 00-0023 LF 1.063" Minimum, 2.125" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-250).....	62.48	8.42
07 91 33 00-0024 LF 1.250" Minimum, 2.563" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-300).....	66.01	8.61
07 91 33 00-0025 LF 1.250" Minimum, 3.375" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-400).....	73.32	8.79
07 91 33 00-0026 LF 1.438" Minimum, 4.250" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-500).....	105.59	9.16
07 91 33 00-0027 LF 1.813" Minimum, 5.125" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-600).....	145.55	9.52
07 91 33 00-0028 Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® Seismic WeatherSeal) (07 91 33 00-0001) Note: Includes a pre-compressed foam seal and silicone sealant.		
07 91 33 00-0029 LF 1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-100).....	34.15	3.06
07 91 33 00-0030 LF 3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-150).....	57.41	3.18
07 91 33 00-0031 LF 1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-200).....	86.55	3.30
07 91 33 00-0032 LF 1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-250).....	109.18	3.42
07 91 33 00-0033 LF 1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-300).....	143.75	3.54
07 91 33 00-0034 LF 1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-350).....	190.26	3.66
07 91 33 00-0035 LF 2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-400).....	233.41	3.79
07 91 33 00-0036 LF 2-1/2" Minimum, 7-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-500).....	314.87	3.91
07 91 33 00-0037 LF 3" Minimum, 9" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-600).....	367.65	4.03
07 91 33 00-0038 Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal Systems (Wabo® WeatherSeal II) (07 91 33 00-0001) Note: Includes a pre-compressed foam seal and silicone sealant.		
07 91 33 00-0039 LF 0.75" Minimum, 1.25" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-100).....	33.31	3.06
07 91 33 00-0040 LF 1.13" Minimum, 1.88" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-150).....	44.02	3.18
07 91 33 00-0041 LF 1.50" Minimum, 2.50" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-200).....	59.13	3.30
07 91 33 00-0042 LF 1.88" Minimum, 3.13" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-250).....	80.30	3.42
07 91 33 00-0043 LF 2.25" Minimum, 3.75" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-300).....	91.63	3.54
07 91 33 00-0044 LF 2.63" Minimum, 4.38" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-350).....	127.26	3.66
07 91 33 00-0045 LF 3.00" Minimum, 5.00" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-400).....	171.04	3.79
07 91 33 00-0046 LF 3.75" Minimum, 6.25" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-500).....	184.68	3.91
07 92 Joint Sealants (07 90)		
07 92 13 Elastomeric Joint Sealants (07 92)		
07 92 13 00-0001 Silicone Sealant And Caulking (07 92 13)		
07 92 13 00-0002 CLF 1/4" x 1/4" Joint, Silicone Sealant And Caulking.....	377.98	109.08
For Custom Match Coloring, Add	12.18	
For Up To 6 CLF, Add	20.17	
For >30 CLF, Deduct	-21.44	
For 1 Part Mildew Resistant, Add	17.76	
For High-Modulus Non-Acid Curing, Add	10.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0003 CLF 1/4" x 3/8" Joint, Silicone Sealant And Caulking	403.35	109.08
<i>For Custom Match Coloring, Add</i>	18.27	
<i>For Up To 4 CLF, Add</i>	22.07	
<i>For >20 CLF, Deduct</i>	-23.97	
<i>For 1 Part Mildew Resistant, Add</i>	26.64	
<i>For High-Modulus Non-Acid Curing, Add</i>	15.22	
07 92 13 00-0004 CLF 1/4" x 1/2" Joint, Silicone Sealant And Caulking	440.84	112.71
<i>For Custom Match Coloring, Add</i>	24.36	
<i>For Up To 3 CLF, Add</i>	24.58	
<i>For >15 CLF, Deduct</i>	-27.12	
<i>For 1 Part Mildew Resistant, Add</i>	35.52	
<i>For High-Modulus Non-Acid Curing, Add</i>	20.30	
07 92 13 00-0005 CLF 3/8" x 3/8" Joint, Silicone Sealant And Caulking	453.53	112.71
<i>For Custom Match Coloring, Add</i>	27.40	
<i>For Up To 2.5 CLF, Add</i>	25.53	
<i>For >13 CLF, Deduct</i>	-28.39	
<i>For 1 Part Mildew Resistant, Add</i>	39.96	
<i>For High-Modulus Non-Acid Curing, Add</i>	22.84	
07 92 13 00-0006 CLF 3/8" x 1/2" Joint, Silicone Sealant And Caulking	491.59	112.71
<i>For Custom Match Coloring, Add</i>	36.54	
<i>For Up To 2 CLF, Add</i>	28.39	
<i>For >10 CLF, Deduct</i>	-32.19	
<i>For 1 Part Mildew Resistant, Add</i>	53.28	
<i>For High-Modulus Non-Acid Curing, Add</i>	30.45	
07 92 13 00-0007 CLF 3/8" x 5/8" Joint, Silicone Sealant And Caulking	529.65	112.71
<i>For Custom Match Coloring, Add</i>	45.67	
<i>For Up To 1.5 CLF, Add</i>	31.24	
<i>For >8 CLF, Deduct</i>	-36.00	
<i>For 1 Part Mildew Resistant, Add</i>	66.61	
<i>For High-Modulus Non-Acid Curing, Add</i>	38.06	
07 92 13 00-0008 CLF 3/8" x 3/4" Joint, Silicone Sealant And Caulking	579.83	117.56
<i>For Custom Match Coloring, Add</i>	54.81	
<i>For Up To 1.3 CLF, Add</i>	34.70	
<i>For >7 CLF, Deduct</i>	-40.41	
<i>For 1 Part Mildew Resistant, Add</i>	79.93	
<i>For High-Modulus Non-Acid Curing, Add</i>	45.67	
07 92 13 00-0009 CLF 1/2" x 1/2" Joint, Silicone Sealant And Caulking	554.46	117.56
<i>For Custom Match Coloring, Add</i>	48.72	
<i>For Up To 1.4 CLF, Add</i>	32.80	
<i>For >7.5 CLF, Deduct</i>	-37.87	
<i>For 1 Part Mildew Resistant, Add</i>	71.05	
<i>For High-Modulus Non-Acid Curing, Add</i>	40.60	
07 92 13 00-0010 CLF 1/2" x 5/8" Joint, Silicone Sealant And Caulking	617.33	121.20
<i>For Custom Match Coloring, Add</i>	60.90	
<i>For Up To 1.15 CLF, Add</i>	37.21	
<i>For >6 CLF, Deduct</i>	-43.55	
<i>For 1 Part Mildew Resistant, Add</i>	88.81	
<i>For High-Modulus Non-Acid Curing, Add</i>	50.75	
07 92 13 00-0011 CLF 1/2" x 3/4" Joint, Silicone Sealant And Caulking	668.08	121.20
<i>For Custom Match Coloring, Add</i>	73.08	
<i>For Up To 1 CLF, Add</i>	41.02	
<i>For >5 CLF, Deduct</i>	-48.63	
<i>For 1 Part Mildew Resistant, Add</i>	106.57	
<i>For High-Modulus Non-Acid Curing, Add</i>	60.90	
07 92 13 00-0012 CLF 1/2" x 7/8" Joint, Silicone Sealant And Caulking	730.95	124.83
<i>For Custom Match Coloring, Add</i>	85.26	
<i>For Up To 0.8 CLF, Add</i>	45.43	
<i>For >4.5 CLF, Deduct</i>	-54.31	
<i>For 1 Part Mildew Resistant, Add</i>	124.33	
<i>For High-Modulus Non-Acid Curing, Add</i>	71.05	
07 92 13 00-0013 CLF 1/2" x 1" Joint, Silicone Sealant And Caulking	793.80	129.68
<i>For Custom Match Coloring, Add</i>	97.43	
<i>For Up To 0.75 CLF, Add</i>	49.84	
<i>For >4 CLF, Deduct</i>	-59.99	
<i>For 1 Part Mildew Resistant, Add</i>	142.09	
<i>For High-Modulus Non-Acid Curing, Add</i>	81.19	
07 92 13 00-0014 CLF 3/4" x 3/4" Joint, Silicone Sealant And Caulking	856.67	133.31
<i>For Custom Match Coloring, Add</i>	109.61	
<i>For Up To 0.65 CLF, Add</i>	54.25	
<i>For >3.5 CLF, Deduct</i>	-65.67	
<i>For 1 Part Mildew Resistant, Add</i>	159.85	
<i>For High-Modulus Non-Acid Curing, Add</i>	91.34	
07 92 13 00-0015 CLF 3/4" x 1" Joint, Silicone Sealant And Caulking	1,045.27	145.44
<i>For Custom Match Coloring, Add</i>	146.15	
<i>For Up To 0.5 CLF, Add</i>	67.49	
<i>For >2.5 CLF, Deduct</i>	-82.71	
<i>For 1 Part Mildew Resistant, Add</i>	213.14	
<i>For High-Modulus Non-Acid Curing, Add</i>	121.79	
07 92 13 00-0016 CLF 1" x 1" Joint, Silicone Sealant And Caulking	1,296.74	161.19
<i>For Custom Match Coloring, Add</i>	194.87	
<i>For Up To 0.4 CLF, Add</i>	85.14	
<i>For >2 CLF, Deduct</i>	-105.43	
<i>For 1 Part Mildew Resistant, Add</i>	284.18	
<i>For High-Modulus Non-Acid Curing, Add</i>	162.39	

07 Thermal And Moisture Protection**07 90 Joint Protection****07 92 Joint Sealants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0017			Acrylic/Latex Sealant And Caulking <small>(07 92 13)</small>		
07 92 13 00-0018	CLF		1/4" x 1/4" Joint, Acrylic/Latex Sealant And Caulking	345.03	109.08
			<i>For Up To 6 CLF, Add</i>	17.70	
			<i>For >30 CLF, Deduct</i>	-18.14	
07 92 13 00-0019	CLF		1/4" x 3/8" Joint, Acrylic/Latex Sealant And Caulking	353.94	109.08
			<i>For Up To 4 CLF, Add</i>	18.36	
			<i>For >20 CLF, Deduct</i>	-19.03	
07 92 13 00-0020	CLF		1/4" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	374.96	112.71
			<i>For Up To 3 CLF, Add</i>	19.64	
			<i>For >15 CLF, Deduct</i>	-20.53	
07 92 13 00-0021	CLF		3/8" x 3/8" Joint, Acrylic/Latex Sealant And Caulking	379.41	112.71
			<i>For Up To 2.5 CLF, Add</i>	19.97	
			<i>For >13 CLF, Deduct</i>	-20.97	
07 92 13 00-0022	CLF		3/8" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	392.76	112.71
			<i>For Up To 2 CLF, Add</i>	20.97	
			<i>For >10 CLF, Deduct</i>	-22.31	
07 92 13 00-0023	CLF		3/8" x 5/8" Joint, Acrylic/Latex Sealant And Caulking	406.11	112.71
			<i>For Up To 1.5 CLF, Add</i>	21.97	
			<i>For >8 CLF, Deduct</i>	-23.64	
07 92 13 00-0024	CLF		3/8" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	431.59	117.56
			<i>For Up To 1.3 CLF, Add</i>	23.58	
			<i>For >7 CLF, Deduct</i>	-25.59	
07 92 13 00-0025	CLF		1/2" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	422.68	117.56
			<i>For Up To 1.4 CLF, Add</i>	22.91	
			<i>For >7.5 CLF, Deduct</i>	-24.69	
07 92 13 00-0026	CLF		1/2" x 5/8" Joint, Acrylic/Latex Sealant And Caulking	452.62	121.20
			<i>For Up To 1.15 CLF, Add</i>	24.86	
			<i>For >6 CLF, Deduct</i>	-27.08	
07 92 13 00-0027	CLF		1/2" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	470.42	121.20
			<i>For Up To 1 CLF, Add</i>	26.19	
			<i>For >5 CLF, Deduct</i>	-28.86	
07 92 13 00-0028	CLF		1/2" x 7/8" Joint, Acrylic/Latex Sealant And Caulking	500.35	124.83
			<i>For Up To 0.8 CLF, Add</i>	28.13	
			<i>For >4.5 CLF, Deduct</i>	-31.25	
07 92 13 00-0029	CLF		1/2" x 1" Joint, Acrylic/Latex Sealant And Caulking	530.26	129.68
			<i>For Up To 0.75 CLF, Add</i>	30.07	
			<i>For >4 CLF, Deduct</i>	-33.63	
07 92 13 00-0030	CLF		3/4" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	560.18	133.31
			<i>For Up To 0.65 CLF, Add</i>	32.01	
			<i>For >3.5 CLF, Deduct</i>	-36.02	
07 92 13 00-0031	CLF		3/4" x 1" Joint, Acrylic/Latex Sealant And Caulking	649.95	145.44
			<i>For Up To 0.5 CLF, Add</i>	37.84	
			<i>For >2.5 CLF, Deduct</i>	-43.18	
07 92 13 00-0032	CLF		1" x 1" Joint, Acrylic/Latex Sealant And Caulking	769.65	161.19
			<i>For Up To 0.4 CLF, Add</i>	45.60	
			<i>For >2 CLF, Deduct</i>	-52.73	
07 92 13 00-0033			Polyurethane Sealant And Caulking <small>(07 92 13)</small>		
			Note: 1 or 2 part, non-sag.		
07 92 13 00-0034	CLF		1/4" x 1/4" Joint, Polyurethane Sealant And Caulking.....	366.15	109.08
			<i>For Up To 6 CLF, Add</i>	19.28	
			<i>For >30 CLF, Deduct</i>	-20.25	
07 92 13 00-0035	CLF		1/4" x 3/8" Joint, Polyurethane Sealant And Caulking.....	385.61	109.08
			<i>For Up To 4 CLF, Add</i>	20.74	
			<i>For >20 CLF, Deduct</i>	-22.20	
07 92 13 00-0036	CLF		1/4" x 1/2" Joint, Polyurethane Sealant And Caulking.....	417.19	112.71
			<i>For Up To 3 CLF, Add</i>	22.81	
			<i>For >15 CLF, Deduct</i>	-24.75	
07 92 13 00-0037	CLF		3/8" x 3/8" Joint, Polyurethane Sealant And Caulking.....	426.92	112.71
			<i>For Up To 2.5 CLF, Add</i>	23.54	
			<i>For >13 CLF, Deduct</i>	-25.72	
07 92 13 00-0038	CLF		3/8" x 1/2" Joint, Polyurethane Sealant And Caulking.....	456.11	112.71
			<i>For Up To 2 CLF, Add</i>	25.72	
			<i>For >10 CLF, Deduct</i>	-28.64	
07 92 13 00-0039	CLF		3/8" x 5/8" Joint, Polyurethane Sealant And Caulking.....	485.30	112.71
			<i>For Up To 1.5 CLF, Add</i>	27.91	
			<i>For >8 CLF, Deduct</i>	-31.56	
07 92 13 00-0040	CLF		3/8" x 3/4" Joint, Polyurethane Sealant And Caulking.....	526.61	117.56
			<i>For Up To 1.3 CLF, Add</i>	30.71	
			<i>For >7 CLF, Deduct</i>	-35.09	
07 92 13 00-0041	CLF		1/2" x 1/2" Joint, Polyurethane Sealant And Caulking.....	507.15	117.56
			<i>For Up To 1.4 CLF, Add</i>	29.25	
			<i>For >7.5 CLF, Deduct</i>	-33.14	
07 92 13 00-0042	CLF		1/2" x 5/8" Joint, Polyurethane Sealant And Caulking.....	558.20	121.20
			<i>For Up To 1.15 CLF, Add</i>	32.78	
			<i>For >6 CLF, Deduct</i>	-37.64	
07 92 13 00-0043	CLF		1/2" x 3/4" Joint, Polyurethane Sealant And Caulking.....	597.13	121.20
			<i>For Up To 1 CLF, Add</i>	35.69	
			<i>For >5 CLF, Deduct</i>	-41.53	
07 92 13 00-0044	CLF		1/2" x 7/8" Joint, Polyurethane Sealant And Caulking.....	648.17	124.83
			<i>For Up To 0.8 CLF, Add</i>	39.22	
			<i>For >4.5 CLF, Deduct</i>	-46.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0045 CLF 1/2" x 1" Joint, Polyurethane Sealant And Caulking <i>For Up To 0.75 CLF, Add</i> <i>For >4 CLF, Deduct</i>	699.20 42.74 -50.53	129.68
07 92 13 00-0046 CLF 3/4" x 3/4" Joint, Polyurethane Sealant And Caulking <i>For Up To 0.65 CLF, Add</i> <i>For >3.5 CLF, Deduct</i>	750.24 46.27 -55.03	133.31
07 92 13 00-0047 CLF 3/4" x 1" Joint, Polyurethane Sealant And Caulking <i>For Up To 0.5 CLF, Add</i> <i>For >2.5 CLF, Deduct</i>	903.36 56.84 -68.52	145.44
07 92 13 00-0048 Flexible Polysulfide Sealant And Caulking, Clear <small>(07 92 13)</small>		
<i>Note: 1 or 2 part, non-sag.</i>		
07 92 13 00-0049 CLF 1/4" x 1/4" Joint, Polysulfide Sealant And Caulking <i>For Up To 6 CLF, Add</i> <i>For >30 CLF, Deduct</i>	369.84 19.56 -20.62	109.08
07 92 13 00-0050 CLF 1/4" x 3/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 4 CLF, Add</i> <i>For >20 CLF, Deduct</i>	391.17 21.16 -22.76	109.08
07 92 13 00-0051 CLF 1/4" x 1/2" Joint, Polysulfide Sealant And Caulking <i>For Up To 3 CLF, Add</i> <i>For >15 CLF, Deduct</i>	424.60 23.36 -25.49	112.71
07 92 13 00-0052 CLF 3/8" x 3/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 2.5 CLF, Add</i> <i>For >13 CLF, Deduct</i>	435.25 24.16 -26.56	112.71
07 92 13 00-0053 CLF 3/8" x 1/2" Joint, Polysulfide Sealant And Caulking <i>For Up To 2 CLF, Add</i> <i>For >10 CLF, Deduct</i>	467.23 26.56 -29.76	112.71
07 92 13 00-0054 CLF 3/8" x 5/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 1.5 CLF, Add</i> <i>For >8 CLF, Deduct</i>	499.19 28.96 -32.95	112.71
07 92 13 00-0055 CLF 3/8" x 3/4" Joint, Polysulfide Sealant And Caulking <i>For Up To 1.3 CLF, Add</i> <i>For >7 CLF, Deduct</i>	543.27 31.96 -36.75	117.56
07 92 13 00-0056 CLF 1/2" x 1/2" Joint, Polysulfide Sealant And Caulking <i>For Up To 1.4 CLF, Add</i> <i>For >7.5 CLF, Deduct</i>	521.97 30.36 -34.62	117.56
07 92 13 00-0057 CLF 1/2" x 5/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 1.15 CLF, Add</i> <i>For >6 CLF, Deduct</i>	576.73 34.16 -39.49	121.20
07 92 13 00-0058 CLF 1/2" x 3/4" Joint, Polysulfide Sealant And Caulking <i>For Up To 1 CLF, Add</i> <i>For >5 CLF, Deduct</i>	619.34 37.36 -43.75	121.20
07 92 13 00-0059 CLF 1/2" x 7/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 0.8 CLF, Add</i> <i>For >4.5 CLF, Deduct</i>	674.10 41.16 -48.62	124.83
07 92 13 00-0060 CLF 1/2" x 1" Joint, Polysulfide Sealant And Caulking <i>For Up To 0.75 CLF, Add</i> <i>For >4 CLF, Deduct</i>	728.82 44.97 -53.49	129.68
07 92 13 00-0061 CLF 3/4" x 3/4" Joint, Polysulfide Sealant And Caulking <i>For Up To 0.65 CLF, Add</i> <i>For >3.5 CLF, Deduct</i>	783.58 48.77 -58.36	133.31
07 92 13 00-0062 CLF 3/4" x 1" Joint, Polysulfide Sealant And Caulking <i>For Up To 0.5 CLF, Add</i> <i>For >2.5 CLF, Deduct</i>	947.80 60.18 -72.96	145.44
07 92 13 00-0063 Flexible Polyurethane Security Sealant And Caulking <small>(07 92 13)</small>		
<i>Note: 1 or 2 part, non-sag.</i>		
07 92 13 00-0064 CLF 1/4" x 1/4" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 6 CLF, Add</i> <i>For >30 CLF, Deduct</i>	378.89 20.24 -21.53	109.08
07 92 13 00-0065 CLF 1/4" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 4 CLF, Add</i> <i>For >20 CLF, Deduct</i>	404.71 22.17 -24.11	109.08
07 92 13 00-0066 CLF 1/4" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 3 CLF, Add</i> <i>For >15 CLF, Deduct</i>	442.66 24.72 -27.30	112.71
07 92 13 00-0067 CLF 3/8" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 2.5 CLF, Add</i> <i>For >13 CLF, Deduct</i>	455.58 25.68 -28.59	112.71
07 92 13 00-0068 CLF 3/8" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 2 CLF, Add</i> <i>For >10 CLF, Deduct</i>	494.32 28.59 -32.46	112.71
07 92 13 00-0069 CLF 3/8" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 1.5 CLF, Add</i> <i>For >8 CLF, Deduct</i>	533.06 31.50 -36.34	112.71
07 92 13 00-0070 CLF 3/8" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 1.3 CLF, Add</i> <i>For >7 CLF, Deduct</i>	583.92 35.01 -40.82	117.56
07 92 13 00-0071 CLF 1/2" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 1.4 CLF, Add</i> <i>For >7.5 CLF, Deduct</i>	558.10 33.07 -38.24	117.56

07 Thermal And Moisture Protection**07 90 Joint Protection****07 92 Joint Sealants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0072	CLF		1/2" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking	621.88	121.20
			<i>For Up To 1.15 CLF, Add</i>	37.55	
			<i>For >6 CLF, Deduct</i>	-44.01	
07 92 13 00-0073	CLF		1/2" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking	673.54	121.20
			<i>For Up To 1 CLF, Add</i>	41.43	
			<i>For >5 CLF, Deduct</i>	-49.17	
07 92 13 00-0074	CLF		1/2" x 7/8" Joint, Flexible Polyurethane Security Sealant And Caulking	737.31	124.83
			<i>For Up To 0.8 CLF, Add</i>	45.91	
			<i>For >4.5 CLF, Deduct</i>	-54.95	
07 92 13 00-0075	CLF		1/2" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking	801.08	129.68
			<i>For Up To 0.75 CLF, Add</i>	50.39	
			<i>For >4 CLF, Deduct</i>	-60.72	
07 92 13 00-0076	CLF		3/4" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking	864.86	133.31
			<i>For Up To 0.65 CLF, Add</i>	54.87	
			<i>For >3.5 CLF, Deduct</i>	-66.49	
07 92 13 00-0077	CLF		3/4" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking	1,056.19	145.44
			<i>For Up To 0.5 CLF, Add</i>	68.31	
			<i>For >2.5 CLF, Deduct</i>	-83.80	

07 92 19 Acoustical Joint Sealants (07 92)**07 92 19 00-0001 Acoustical Sealant** (07 92 19)

07 92 19 00-0002	CLF		1/4" x 1/4" Joint, Acoustical Sealant.....	376.39	109.08
			<i>For Custom Match Coloring, Add</i>	11.80	
			<i>For Up To 6 CLF, Add</i>	20.05	
			<i>For >30 CLF, Deduct</i>	-21.28	
			<i>For 1 Part Mildew Resistant, Add</i>	17.21	
			<i>For High-Modulus Non-Acid Curing, Add</i>	9.83	
07 92 19 00-0003	CLF		1/4" x 3/8" Joint, Acoustical Sealant.....	395.07	109.08
			<i>For Custom Match Coloring, Add</i>	16.28	
			<i>For Up To 4 CLF, Add</i>	21.45	
			<i>For >20 CLF, Deduct</i>	-23.15	
			<i>For 1 Part Mildew Resistant, Add</i>	23.74	
			<i>For High-Modulus Non-Acid Curing, Add</i>	13.57	
07 92 19 00-0004	CLF		1/4" x 1/2" Joint, Acoustical Sealant.....	418.19	112.71
			<i>For Custom Match Coloring, Add</i>	18.92	
			<i>For Up To 3 CLF, Add</i>	22.88	
			<i>For >15 CLF, Deduct</i>	-24.85	
			<i>For 1 Part Mildew Resistant, Add</i>	27.59	
			<i>For High-Modulus Non-Acid Curing, Add</i>	15.77	
07 92 19 00-0005	CLF		3/8" x 3/8" Joint, Acoustical Sealant.....	448.74	112.71
			<i>For Custom Match Coloring, Add</i>	26.25	
			<i>For Up To 2.5 CLF, Add</i>	25.17	
			<i>For >13 CLF, Deduct</i>	-27.91	
			<i>For 1 Part Mildew Resistant, Add</i>	38.29	
			<i>For High-Modulus Non-Acid Curing, Add</i>	21.88	
07 92 19 00-0006	CLF		3/8" x 1/2" Joint, Acoustical Sealant.....	480.49	112.71
			<i>For Custom Match Coloring, Add</i>	33.87	
			<i>For Up To 2 CLF, Add</i>	27.55	
			<i>For >10 CLF, Deduct</i>	-31.08	
			<i>For 1 Part Mildew Resistant, Add</i>	49.40	
			<i>For High-Modulus Non-Acid Curing, Add</i>	28.23	
07 92 19 00-0007	CLF		1/2" x 1/2" Joint, Acoustical Sealant.....	550.35	117.56
			<i>For Custom Match Coloring, Add</i>	47.73	
			<i>For Up To 1.4 CLF, Add</i>	32.49	
			<i>For >7.5 CLF, Deduct</i>	-37.46	
			<i>For 1 Part Mildew Resistant, Add</i>	69.61	
			<i>For High-Modulus Non-Acid Curing, Add</i>	39.78	

07 95 Expansion Control (07 90)**07 95 13 Expansion Joint Cover Assemblies** (07 95)

Note: Includes necessary waterproofing mastics/caulking.

07 95 13 13 Interior Expansion Joint Cover Assemblies (07 95 13)

07 95 13 13-0001			Interior Floor Expansion Joint Cover Assemblies <small>(07 95 13 13)</small>		
07 95 13 13-0002			With 1" Space <small>(07 95 13 13-0001)</small>		
07 95 13 13-0003	LF		1" Opening Floor Assembly Type, With Aluminum Expansion Joint Cover.....	72.95	6.51
07 95 13 13-0004	LF		1" Opening Floor Assembly Type, With Bronze Expansion Joint Cover	74.76	6.51
07 95 13 13-0005	LF		1" Opening Floor Assembly Type, With Stainless Steel Expansion Joint Cover	74.53	6.51
07 95 13 13-0006			With 2" Space <small>(07 95 13 13-0001)</small>		
07 95 13 13-0007	LF		2" Opening Floor Assembly Type, Aluminum Expansion Joint Cover.....	97.99	6.51
07 95 13 13-0008	LF		2" Opening Floor Assembly Type, Bronze Expansion Joint Cover	92.04	6.51
07 95 13 13-0009	LF		2" Opening Floor Assembly Type, Stainless Steel Expansion Joint Cover	100.36	6.51
07 95 13 13-0010			Interior Ceiling And Wall Expansion Joint Cover Assemblies <small>(07 95 13 13)</small>		
07 95 13 13-0011			With 1" Space <small>(07 95 13 13-0010)</small>		



Thermal And Moisture Protection		07
Joint Protection		07 90
Expansion Control		07 95

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 95 13 13-0012 LF 1" Opening Ceiling And Wall Assembly Type, Aluminum Expansion Joint Cover.....	53.58	6.51
07 95 13 13-0013 LF 1" Opening Ceiling And Wall Assembly Type, Bronze Expansion Joint Cover	63.13	6.51
07 95 13 13-0014 LF 1" Opening Ceiling And Wall Assembly Type, Stainless Steel Expansion Joint Cover	67.28	6.51
07 95 13 13-0015 With 2" Space <small>(07 95 13 13-0010)</small>		
07 95 13 13-0016 LF 2" Opening Ceiling And Wall Assembly Type, Aluminum Expansion Joint Cover.....	68.60	6.51
07 95 13 13-0017 LF 2" Opening Ceiling And Wall Assembly Type, Bronze Expansion Joint Cover	71.76	6.51
07 95 13 13-0018 LF 2" Opening Ceiling And Wall Assembly Type, Stainless Steel Expansion Joint Cover	80.19	6.51
07 95 13 16 Exterior Expansion Joint Cover Assemblies <small>(07 95 13)</small>		
07 95 13 16-0001 Exterior Roof Aluminum Expansion Joint Cover Assemblies <small>(07 95 13 16)</small>		
07 95 13 16-0002 Roof To Roof <small>(07 95 13 16-0001)</small>		
07 95 13 16-0003 LF 1" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	99.82	4.34
07 95 13 16-0004 LF 2" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	120.89	4.34
07 95 13 16-0005 LF 3" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	135.41	4.34
07 95 13 16-0006 Roof To Wall <small>(07 95 13 16-0001)</small>		
07 95 13 16-0007 LF 1" Opening Aluminum Assemblies, Exterior Roof To Wall Expansion Joint.....	73.49	4.34
07 95 13 16-0008 LF 2" Opening Aluminum Assemblies, Exterior Roof To Wall Expansion Joint.....	99.29	4.34
07 95 13 16-0009 Flat Wall To Wall <small>(07 95 13 16-0001)</small>		
07 95 13 16-0010 LF 1" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	54.18	4.34
07 95 13 16-0011 LF 2" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	69.66	4.34
07 95 13 16-0012 LF 3" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	88.34	4.34
07 95 13 16-0013 Corner To Flat Wall <small>(07 95 13 16-0001)</small>		
07 95 13 16-0014 LF 1" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	50.67	4.34
07 95 13 16-0015 LF 2" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	60.99	4.34
07 95 13 16-0016 LF 3" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	89.99	4.34

END OF SECTION 07

07	07 Thermal And Moisture Protection
	07 90 Joint Protection
	07 95 Expansion Control



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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08 Openings

08 01 Operation and Maintenance of Openings⁽⁰⁸⁾

08 01 10 Operation and Maintenance of Doors and Frames^(08 01)

08 01 11 Operation and Maintenance of Metal Doors and Frames^(08 01 10)

08 01 11 61 Metal Doors and Frames Repair^(08 01 11)

08 01 11 61-0001	EA	Hollow Metal Door Repair ^(08 01 11 61) Note: Repairs are based on holes or damage of less than 1/2 of a square foot.	
08 01 11 61-0002	EA	Up To 1 SI, Patch Small Drill Holes Note: Per hinge location - sand to bare metal, mix/patch with bondo, fine grit sand smooth for finish	21.57
08 01 11 61-0003	EA	>1 To 6 SI, Patch Small Drill Holes Note: Per hinge location - sand to bare metal, mix/patch with bondo, fine grit sand smooth for finish	43.27
08 01 11 61-0004	LF	Patch Deep Scrapes Or Cuts In Doors	52.10

08 01 50 Operation and Maintenance of Windows^(08 01)

08 01 52 Operation and Maintenance of Wood Windows^(08 01 50)

08 01 52 61 Wood Window Repairs^(08 01 52)

08 01 52 61-0001	EA	Window Restoration And Replacement ^(08 01 52 61)	
08 01 52 61-0002	EA	Removal And Replacement Of Sash Guides	13.20
08 01 52 61-0003	EA	Removal And Replacement Of Window Arms	36.28
08 01 52 61-0004	EA	Removal And Replacement Of Window Crank Operator	43.21
08 01 52 61-0005	EA	Removal And Replacement Of Brass Window Sash Pull	25.05
08 01 52 61-0006	EA	Removal And Replacement Of Brass Window Sash Lock	23.04
08 01 52 61-0007	EA	Removal And Replacement Of Window Balance, Removable Sash Window	29.53
		Note: Channel, spiral or coil balance.	
08 01 52 61-0008	EA	Removal And Replacement Of Window Balance, Sash Window, Wooden Stops And/Or Casing	90.15
		Note: Channel, spiral or coil balance.	
		For Replacing Two Balances In One Window, Deduct	-33.46

08 01 80 Maintenance of Glazing^(08 01)

08 01 81 Maintenance of Glass Glazing^(08 01 80)

08 01 81 00-0001	EA	Glazing Compound Repair ^(08 01 81)	
08 01 81 00-0002	LF	Removal And Replacement Of Up To 1/2" Wide Damaged, Broken Or Cracked Window Glazing	5.88

08 05 Common Work Results for Openings⁽⁰⁸⁾

08 05 13 Door Options and Modifications^(08 05)

Note: Excludes removal and reinstallation of door.

08 05 13 00-0001	EA	Door Vision Panels (Pemko LT-S1) ^(08 05 13) Note: Factory primed or powder coated.	
08 05 13 00-0002	EA	For Up To 1 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add For 9/16" To 1-1/16" Glazing Pocket, Add	141.23 70.62
08 05 13 00-0003	EA	For >1 To 2 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add For 9/16" To 1-1/16" Glazing Pocket, Add	178.77 89.39
08 05 13 00-0004	EA	For >2 To 4 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add For 9/16" To 1-1/16" Glazing Pocket, Add	207.37 103.69
08 05 13 00-0005	EA	For >4 To 6 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add For 9/16" To 1-1/16" Glazing Pocket, Add	264.58 132.29
08 05 13 00-0006	EA	For >6 To 8 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add For 9/16" To 1-1/16" Glazing Pocket, Add	343.24 171.62
08 05 13 00-0007	EA	For >8 To 10 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add For 9/16" To 1-1/16" Glazing Pocket, Add	437.98 218.99
08 05 13 00-0008	EA	For >10 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add For 9/16" To 1-1/16" Glazing Pocket, Add	464.80 232.40
08 05 13 00-0009	EA	For Up To 1 SF, Site Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add For 9/16" To 1-1/16" Glazing Pocket, Add	249.64 64.20
08 05 13 00-0010	EA	For >1 To 2 SF, Site Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add For 9/16" To 1-1/16" Glazing Pocket, Add	295.89 81.26

08 Openings**08 05 Common Work Results for Openings****08 05 13 Door Options and Modifications**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 05 13 00-0011	EA		For >2 To 4 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add.....	334.01	
			<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	94.26	
08 05 13 00-0012	EA		For >4 To 6 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add.....	398.15	
			<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	120.27	
08 05 13 00-0013	EA		For >6 To 8 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add.....	481.78	
			<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	156.02	
08 05 13 00-0014	EA		For >8 To 10 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add.....	580.03	
			<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	199.09	
08 05 13 00-0015	EA		For >10 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add.....	616.54	
			<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	211.28	
08 05 13 00-0016			Door Louvers, Inverted "Y" 50% Free Air (Pemko LV-IY) (08 05 13)		
			Note: Factory primed or powder coated.		
08 05 13 00-0017	EA		For Up To 1 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	134.66	
08 05 13 00-0018	EA		For >1 To 2 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	152.98	
08 05 13 00-0019	EA		For >2 To 4 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	207.92	
08 05 13 00-0020	EA		For >4 To 6 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	387.72	
08 05 13 00-0021	EA		For >6 To 8 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	479.47	
08 05 13 00-0022	EA		For >8 To 10 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	572.71	
08 05 13 00-0023	EA		For >10 To 14 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	747.34	
08 05 13 00-0024	EA		For >14 To 18 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	879.72	
			<i>For 18 Gauge Louver And 18 Gauge Frame, Add</i>	105.57	
08 05 13 00-0025	EA		For Up To 1 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	225.60	
08 05 13 00-0026	EA		For >1 To 2 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	253.00	
08 05 13 00-0027	EA		For >2 To 4 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	317.04	
08 05 13 00-0028	EA		For >4 To 6 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	505.93	
08 05 13 00-0029	EA		For >6 To 8 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	606.78	
08 05 13 00-0030	EA		For >8 To 10 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	709.11	
08 05 13 00-0031	EA		For >10 To 14 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	892.83	
08 05 13 00-0032	EA		For >14 To 18 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	1,031.27	
			<i>For 18 Gauge Louver And 18 Gauge Frame, Add</i>	105.57	
08 05 13 00-0033			Fire Rated Fusible Link Louvers (Pemko LV-FL) (08 05 13)		
			Note: Factory primed or powder coated.		
08 05 13 00-0034	EA		For Up To 1 SF, Factory Installed 16 Gauge Galvanized Adjustable "Z" Blades, 18 Gauge Galvanized Frame Fire Rated Fusible Link Louver In Door, Add.....	272.70	
08 05 13 00-0035	EA		For >1 To 2 SF, Factory Installed 16 Gauge Galvanized Adjustable "Z" Blades, 18 Gauge Galvanized Frame Fire Rated Fusible Link Louver In Door, Add.....	312.05	
08 05 13 00-0036	EA		For >2 To 4 SF, Factory Installed 16 Gauge Galvanized Adjustable "Z" Blades, 18 Gauge Galvanized Frame Fire Rated Fusible Link Louver In Door, Add.....	366.54	
08 05 13 00-0037	EA		For Up To 1 SF, Site Installed 16 Gauge Galvanized Adjustable "Z" Blades, 18 Gauge Galvanized Frame Fire Rated Fusible Link Louver In Door, Add.....	381.82	
08 05 13 00-0038	EA		For >1 To 2 SF, Site Installed 16 Gauge Galvanized Adjustable "Z" Blades, 18 Gauge Galvanized Frame Fire Rated Fusible Link Louver In Door, Add.....	433.30	
08 05 13 00-0039	EA		For >2 To 4 SF, Site Installed 16 Gauge Galvanized Adjustable "Z" Blades, 18 Gauge Galvanized Frame Fire Rated Fusible Link Louver In Door, Add.....	497.48	
08 05 13 00-0040			Door Hardware Preparation (08 05 13)		
08 05 13 00-0041	EA		Factory Prepare Wood Door (Rated Or Non-Rated) For Mortise Lockset Hardware.....	90.90	
08 05 13 00-0042	EA		Prepare Existing Wood Door (Rated) For Mortise Lockset Hardware.....	224.21	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0043	EA		Prepare Existing Wood Door (Non-Rated) For Mortise Lockset Hardware.....	103.01	
08 05 13 00-0044	EA		Prepare Existing Wood Door (Rated) For Cylindrical Lockset Hardware.....	181.80	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0045	EA		Prepare Existing Wood Door (Non-Rated) For Cylindrical Lockset Hardware.....	30.30	
08 05 13 00-0046	EA		Prepare Existing Wood Door (Rated) For Concealed Vertical Rod.....	333.33	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0047	EA		Prepare Existing Wood Door (Non-Rated) For Concealed Vertical Rod.....	212.09	
08 05 13 00-0048	EA		Prepare Existing Wood Door (Rated) For Electric Hardware.....	224.21	
			Note: Requires door to be taken off site for UL certification.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 05 13 00-0049 EA Prepare Existing Door (Non-Rated) For Electric Hardware	103.01	
08 05 13 00-0050 Door Modifications <small>(08 05 13)</small>		
08 05 13 00-0051 EA Factory Installed Sound Proofing (STC 28) In Metal Door.....	164.83	
08 05 13 00-0052 SF For 16 Gauge Steel Metal Plate Bolted On Door..... Note: Includes mounting hardware.	31.54	
08 05 13 00-0053 EA Trim Bottom Of Existing Steel Door For Installation Of Carpet Or Tile	109.12	
Note: Excludes removal and reinstallation of door.		
08 05 13 00-0054 EA Trim Bottom Of Existing Wood Door For Installation Of Carpet Or Tile	54.92	
Note: Excludes removal and reinstallation of door.		
08 05 13 00-0055 EA Modify Metal Door Frame For Door Swing	1,349.54	
Note: Includes removal of door; install blank hinge plates, new continuous hinge, blank strike plate, new strike plate and reinstallation of door.		
08 05 13 00-0056 EA Removal And Reinstallation Of Door	103.05	
08 05 13 00-0057 EA Removal And Reinstallation Of Metal Door Frame	202.07	
08 05 13 00-0058 EA Removal And Reinstallation Of Wood Door Frame.....	122.06	
08 05 13 00-0059 EA Factory Trim Wood Door Edge For Custom Width	79.33	

08 30 Specialty Doors and Frames (08)

Note: Includes caulk, sealant and mounting anchors.

08 31 Access Doors and Panels (08 30)

See CSI section 07 72 33 00-0000 for roof hatches.

08 31 13 Access Doors and Frames (08 31)

08 31 13 00-0001 Stainless Steel Access Doors (08 31 13)

08 31 13 00-0002 Fire Rated Stainless Steel Access Doors (08 31 13 00-0001)

08 31 13 00-0003 EA 12" x 12" Fire Rated Stainless Steel Access Door With Cam Latch	415.98	71.36
08 31 13 00-0004 EA 12" x 18" Fire Rated Stainless Steel Access Door With Cam Latch	480.94	76.02
08 31 13 00-0005 EA 18" x 18" Fire Rated Stainless Steel Access Door With Cam Latch	557.87	80.41
08 31 13 00-0006 EA 24" x 18" Fire Rated Stainless Steel Access Door With Cam Latch	640.25	84.49
08 31 13 00-0007 EA 24" x 24" Fire Rated Stainless Steel Access Door With Cam Latch	654.28	84.92
08 31 13 00-0008 EA 24" x 36" Fire Rated Stainless Steel Access Door With Cam Latch	845.23	87.56

08 31 13 00-0009 Stainless Steel Access Doors (08 31 13 00-0001)

08 31 13 00-0010 EA 8" x 8" Stainless Steel Access Door With Cam Latch	184.17	54.72
08 31 13 00-0011 EA 12" x 12" Stainless Steel Access Door With Cam Latch	216.14	71.36
08 31 13 00-0012 EA 12" x 18" Stainless Steel Access Door With Cam Latch	295.90	76.02
08 31 13 00-0013 EA 18" x 18" Stainless Steel Access Door With Cam Latch	317.08	80.41
08 31 13 00-0014 EA 24" x 18" Stainless Steel Access Door With Cam Latch	364.01	84.49
08 31 13 00-0015 EA 24" x 24" Stainless Steel Access Door With Cam Latch	409.60	84.92

08 31 13 00-0016 Steel Access Doors (08 31 13)

Note: Includes paintable powder coated finish.

08 31 13 00-0017 Insulated Fire Rated Steel Access Doors (08 31 13 00-0016)

08 31 13 00-0018 EA 12" x 12" Insulated Fire Rated Steel Access Door With Cam Latch	287.20	71.80
08 31 13 00-0019 EA 12" x 18" Insulated Fire Rated Steel Access Door With Cam Latch	350.64	76.02
08 31 13 00-0020 EA 18" x 18" Insulated Fire Rated Steel Access Door With Cam Latch	352.13	80.41
08 31 13 00-0021 EA 24" x 18" Insulated Fire Rated Steel Access Door With Cam Latch	414.17	84.92
08 31 13 00-0022 EA 24" x 24" Insulated Fire Rated Steel Access Door With Cam Latch	431.45	84.92
08 31 13 00-0023 EA 24" x 36" Insulated Fire Rated Steel Access Door With Cam Latch	566.81	87.56
08 31 13 00-0024 EA 24" x 48" Insulated Fire Rated Steel Access Door With Cam Latch	649.00	91.20
08 31 13 00-0025 EA 36" x 36" Insulated Fire Rated Steel Access Door With Cam Latch	792.04	91.20
08 31 13 00-0026 EA 48" x 48" Insulated Fire Rated Steel Access Door With Cam Latch	1,012.81	109.44

08 31 13 00-0027 Steel Access Doors (08 31 13 00-0016)

08 31 13 00-0028 EA 8" x 8" Steel Access Door With Cam Latch	158.87	55.01
08 31 13 00-0029 EA 12" x 12" Steel Access Door With Cam Latch.....	170.06	71.80
08 31 13 00-0030 EA 12" x 18" Steel Access Door With Cam Latch.....	193.20	76.02
08 31 13 00-0031 EA 18" x 18" Steel Access Door With Cam Latch.....	199.49	80.41
08 31 13 00-0032 EA 24" x 18" Steel Access Door With Cam Latch.....	232.73	84.92
08 31 13 00-0033 EA 24" x 24" Steel Access Door With Cam Latch.....	237.50	84.92
08 31 13 00-0034 EA 24" x 36" Steel Access Door With Cam Latch.....	306.62	87.56
08 31 13 00-0035 EA 36" x 36" Steel Access Door With Cam Latch.....	393.46	91.20

08 31 13 00-0036 Steel Recessed Access Doors For Drywall Application (08 31 13)

Note: Includes paintable powder coated finish.

08 31 13 00-0037 EA 8" x 8" Recessed Steel Access Door With Cam Latch.....	216.00	54.72
<i>For Recessed Doors In Acoustical Tile, Add</i>	27.79	
08 31 13 00-0038 EA 12" x 12" Recessed Steel Access Door With Cam Latch.....	226.70	58.66
<i>For Recessed Doors In Acoustical Tile, Add</i>	30.49	
08 31 13 00-0039 EA 12" x 18" Recessed Steel Access Door With Cam Latch.....	243.19	62.01
<i>For Recessed Doors In Acoustical Tile, Add</i>	31.77	

08 Openings**08 30 Specialty Doors and Frames****08 31 Access Doors and Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 31 13 00-0040	EA		18" x 18" Recessed Steel Access Door With Cam Latch.....	282.05	65.66
			<i>For Recessed Doors In Acoustical Tile, Add</i>	29.92	
08 31 13 00-0041	EA		24" x 18" Recessed Steel Access Door With Cam Latch.....	296.87	69.31
			<i>For Recessed Doors In Acoustical Tile, Add</i>	31.73	
08 31 13 00-0042	EA		24" x 24" Recessed Steel Access Door With Cam Latch.....	322.01	69.31
			<i>For Recessed Doors In Acoustical Tile, Add</i>	27.96	
08 31 13 00-0043	EA		24" x 36" Recessed Steel Access Door With Cam Latch.....	401.66	87.56
			<i>For Recessed Doors In Acoustical Tile, Add</i>	36.06	
08 31 13 00-0044	EA		36" x 36" Recessed Steel Access Door With Cam Latch.....	558.22	91.20
			<i>For Recessed Doors In Acoustical Tile, Add</i>	16.59	
08 31 13 00-0045			Steel Crawl Space Doors And Frames <small>(08 31 13)</small>		
			Note: Includes paintable powder coated finish.		
08 31 13 00-0046	EA		24" x 24" Steel Crawl Space Door With Cam Latch.....	251.37	92.36
08 31 13 00-0047	EA		30" x 24" Steel Crawl Space Door With Cam Latch.....	347.04	111.93
08 31 13 00-0048	EA		30" x 30" Steel Crawl Space Door With Cam Latch.....	387.64	121.55

08 60 Roof Windows and Skylights (08)

Note: Includes hardware, caulk, sealant and necessary anchors.

08 62 Unit Skylights (08 60)**08 62 23 Tubular Skylights** (08 62)**08 62 23 00-0001 Aluminum Framed Solar Tube Skylights** (08 62 23)

Note: Includes knock down curb with safety security guard, class 1 hail rated double glazed skylight, light shaft top trim, reflective light well, T-bar ceiling frame, acrylic diffuser lens and lens clip.

08 62 23 00-0002 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights (08 62 23 00-0001)

08 62 23 00-0003	EA		2' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,291.67	200.36
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	99.98	
08 62 23 00-0004	EA		3' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,363.72	205.37
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	99.98	
08 62 23 00-0005	EA		4' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,433.68	210.37
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	99.99	
08 62 23 00-0006	EA		5' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,532.59	215.38
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	99.99	
08 62 23 00-0007	EA		6' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,619.09	220.40
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	99.99	



Openings	08
Roof Windows and Skylights	08 60
Unit Skylights	08 62

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0008	EA		7' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,689.06	225.40
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	995.99	
08 62 23 00-0009	EA		8' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,759.02	230.41
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	996.99	
08 62 23 00-0010	EA		9' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,874.47	235.42
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	997.99	
08 62 23 00-0011	EA		10' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,944.44	240.43
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	999.00	
08 62 23 00-0012	EA		11' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,016.47	245.44
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,000.00	
08 62 23 00-0013	EA		12' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,086.43	250.45
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,001.00	
08 62 23 00-0014	EA		13' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,201.88	255.45
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,002.00	
08 62 23 00-0015	EA		14' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,271.85	260.47
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,003.00	
08 62 23 00-0016	EA		15' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,341.82	265.47
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,004.01	

08 Openings**08 60 Roof Windows and Skylights****08 62 Unit Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0017	EA		16' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,411.78	270.48
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,005.01	
08 62 23 00-0018			31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights <small>(08 62 23 00-0001)</small>		
08 62 23 00-0019	EA		2' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,570.75	200.36
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	990.98	
08 62 23 00-0020	EA		3' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,669.66	205.37
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	991.98	
08 62 23 00-0021	EA		4' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,768.56	210.37
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	992.99	
08 62 23 00-0022	EA		5' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,867.47	215.38
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	993.99	
08 62 23 00-0023	EA		6' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,028.40	220.40
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	994.99	
08 62 23 00-0024	EA		7' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,127.31	225.40
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	995.99	
08 62 23 00-0025	EA		8' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,226.21	230.41
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	996.99	
08 62 23 00-0026	EA		9' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,387.13	235.42
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	997.99	



Openings	08
Roof Windows and Skylights	08 60
Unit Skylights	08 62

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0027	EA		10' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,486.04	240.43
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	999.00	
08 62 23 00-0028	EA		11' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,584.95	245.44
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,000.00	
08 62 23 00-0029	EA		12' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,683.85	250.45
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,001.00	
08 62 23 00-0030	EA		13' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,844.78	255.45
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,002.00	
08 62 23 00-0031	EA		14' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,943.69	260.47
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,003.00	
08 62 23 00-0032	EA		15' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,042.60	265.47
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,004.01	
08 62 23 00-0033	EA		16' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,141.50	270.48
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,005.01	
08 62 23 00-0034			55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights <small>(08 62 23 00-0001)</small>		
08 62 23 00-0035	EA		2' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,102.50	225.40
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	995.99	
08 62 23 00-0036	EA		3' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,240.68	230.41
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	996.99	

08 Openings**08 60 Roof Windows and Skylights****08 62 Unit Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0037	EA		4' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,380.93	235.42
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	997.99	
08 62 23 00-0038	EA		5' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,519.12	240.43
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	999.00	
08 62 23 00-0039	EA		6' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,739.99	245.44
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,000.00	
08 62 23 00-0040	EA		7' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,878.17	250.45
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,001.00	
08 62 23 00-0041	EA		8' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,016.36	255.45
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,002.00	
08 62 23 00-0042	EA		9' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,239.30	260.47
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,003.00	
08 62 23 00-0043	EA		10' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,377.48	265.47
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,004.01	
08 62 23 00-0044	EA		11' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,515.66	270.48
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,005.01	
08 62 23 00-0045	EA		12' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,653.85	275.49
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,006.01	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0046	EA			13' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,874.72	280.50
				<i>For Class 3 Hail Rated, Add</i>	10.00	
				<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
				<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
				<i>For FM Approved, Add</i>	36.00	
				<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
				<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
				<i>For Single Blade Louver, Add</i>	1,007.01	
08 62 23 00-0047	EA			14' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	4,012.91	285.51
				<i>For Class 3 Hail Rated, Add</i>	10.00	
				<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
				<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
				<i>For FM Approved, Add</i>	36.00	
				<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
				<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
				<i>For Single Blade Louver, Add</i>	1,008.01	
08 62 23 00-0048	EA			15' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	4,153.16	290.52
				<i>For Class 3 Hail Rated, Add</i>	10.00	
				<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
				<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
				<i>For FM Approved, Add</i>	36.00	
				<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
				<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
				<i>For Single Blade Louver, Add</i>	1,009.01	
08 62 23 00-0049	EA			16' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	4,291.34	295.53
				<i>For Class 3 Hail Rated, Add</i>	10.00	
				<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
				<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
				<i>For FM Approved, Add</i>	36.00	
				<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
				<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
				<i>For Single Blade Louver, Add</i>	1,010.02	

08 63 Metal-Framed Skylights (08 60)

08 63 13 Domed Metal-Framed Skylights (08 63)

- 08 63 13 00-0001 Domed Aluminum Framed Skylights (08 63 13)
- 08 63 13 00-0002 Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0001)
- 08 63 13 00-0003 Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0002)
- 08 63 13 00-0004 Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003)

Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.

08 63 13 00-0005	EA			27-1/4" x 27-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	721.92	135.24
08 63 13 00-0006	EA			27-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	853.41	145.26
08 63 13 00-0007	EA			27-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,110.23	160.28
08 63 13 00-0008	EA			27-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,239.09	170.30
08 63 13 00-0009	EA			39-1/4" x 39-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	890.39	145.26
08 63 13 00-0010	EA			39-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,086.30	160.28
08 63 13 00-0011	EA			39-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,173.81	170.30
08 63 13 00-0012	EA			39-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,316.15	180.32
08 63 13 00-0013	EA			39-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,507.69	195.35
08 63 13 00-0014	EA			51-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,106.76	170.30
08 63 13 00-0015	EA			51-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,189.47	175.31
08 63 13 00-0016	EA			51-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,319.19	180.32
08 63 13 00-0017	EA			51-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,417.57	185.33
08 63 13 00-0018	EA			52-1/4" x 100-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,556.89	200.36
08 63 13 00-0019	EA			52-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,725.34	210.37
08 63 13 00-0020	EA			63-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,287.85	180.32
08 63 13 00-0021	EA			63-5/8" x 75-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,393.64	190.34

08 Openings**08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0022 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,549.47	195.35
08 63 13 00-0023 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,637.41	205.37
08 63 13 00-0024 EA 63-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,858.11	215.38
08 63 13 00-0025 Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0003)</small>		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0026 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	852.50	135.24
08 63 13 00-0027 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	981.37	145.26
08 63 13 00-0028 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,212.08	160.28
08 63 13 00-0029 EA 27-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,343.55	170.30
08 63 13 00-0030 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	984.41	145.26
08 63 13 00-0031 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,159.42	160.28
08 63 13 00-0032 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,252.15	170.30
08 63 13 00-0033 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,404.94	180.32
08 63 13 00-0034 EA 39-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,559.92	195.35
08 63 13 00-0035 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,179.88	170.30
08 63 13 00-0036 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,273.04	175.31
08 63 13 00-0037 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,363.58	180.32
08 63 13 00-0038 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,467.19	185.33
08 63 13 00-0039 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,583.00	200.36
08 63 13 00-0040 EA 52-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,754.06	210.37
08 63 13 00-0041 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,374.03	180.32
08 63 13 00-0042 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,487.66	190.34
08 63 13 00-0043 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,604.31	195.35
08 63 13 00-0044 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,697.47	205.37
08 63 13 00-0045 EA 63-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,897.28	215.38
08 63 13 00-0046 High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0003)</small>		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0047 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	862.95	135.24
08 63 13 00-0048 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,002.26	145.26
08 63 13 00-0049 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,240.81	160.28
08 63 13 00-0050 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,010.52	145.26
08 63 13 00-0051 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,195.98	160.28
08 63 13 00-0052 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,280.88	170.30
08 63 13 00-0053 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,436.28	180.32
08 63 13 00-0054 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,203.38	170.30
08 63 13 00-0055 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,293.93	175.31
08 63 13 00-0056 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,397.53	180.32
08 63 13 00-0057 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,501.14	185.33
08 63 13 00-0058 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,624.79	200.36



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0059	EA	63-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,405.37	180.32
08 63 13 00-0060	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,529.44	190.34
08 63 13 00-0061	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,646.10	195.35
08 63 13 00-0062	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,739.26	205.37
08 63 13 00-0063		FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0003)</small>		
		<small>Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.</small>		
08 63 13 00-0064	EA	27-1/4" x 27-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	881.23	135.24
08 63 13 00-0065	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,030.99	145.26
08 63 13 00-0066	EA	27-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,266.92	160.28
08 63 13 00-0067	EA	27-1/4" x 123-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,437.57	170.30
08 63 13 00-0068	EA	39-1/4" x 39-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,036.64	145.26
08 63 13 00-0069	EA	39-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,219.49	160.28
08 63 13 00-0070	EA	39-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,306.99	170.30
08 63 13 00-0071	EA	39-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,475.45	180.32
08 63 13 00-0072	EA	51-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,232.11	170.30
08 63 13 00-0073	EA	51-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,322.66	175.31
08 63 13 00-0074	EA	51-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,434.09	180.32
08 63 13 00-0075	EA	51-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,540.31	185.33
08 63 13 00-0076	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,666.57	200.36
08 63 13 00-0077	EA	63-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,444.54	180.32
08 63 13 00-0078	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,568.61	190.34
08 63 13 00-0079	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,687.88	195.35
08 63 13 00-0080	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,786.27	205.37
08 63 13 00-0081		Curb Top Inserts <small>(08 63 13 00-0003)</small>		
		<small>Note: For use with industrial style fixed dome skylights for better u-value and solar heat gain coefficient/shading coefficient (SHGC/SC) properties. Includes mill finish aluminum frame and acrylic or polycarbonate glazing. Excludes roof curb.</small>		
08 63 13 00-0082		Single Glazed, Aluminum Framed Curb Top Inserts <small>(08 63 13 00-0081)</small>		
08 63 13 00-0083	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	274.78	65.11
08 63 13 00-0084	EA	51-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	359.77	75.13
08 63 13 00-0085	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	573.41	100.18
08 63 13 00-0086	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	529.76	90.16
08 63 13 00-0087	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	631.29	100.18
08 63 13 00-0088		Double Glazed, Aluminum Framed Curb Top Inserts <small>(08 63 13 00-0081)</small>		
08 63 13 00-0089	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	359.53	65.11
08 63 13 00-0090	EA	51-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	523.08	75.13
08 63 13 00-0091	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	869.02	100.18
08 63 13 00-0092	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	843.97	90.16
08 63 13 00-0093	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	1,040.60	100.18
08 63 13 00-0094		Triple Glazed, Aluminum Framed Curb Top Inserts <small>(08 63 13 00-0081)</small>		
08 63 13 00-0095	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	442.22	65.11
08 63 13 00-0096	EA	51-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	678.12	75.13
08 63 13 00-0097	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	1,232.85	100.18
08 63 13 00-0098	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	1,137.51	90.16
08 63 13 00-0099	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	1,420.96	100.18
08 63 13 00-0100		Pyramid Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0002)</small>		

08 Openings**08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0101			Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0100)</small>		
			Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0102	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	674.92	135.24
08 63 13 00-0103	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	817.27	145.26
08 63 13 00-0104	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	1,033.64	170.30
08 63 13 00-0105	EA		63-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	1,259.12	180.32
08 63 13 00-0106			Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0100)</small>		
			Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0107	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	878.61	135.24
08 63 13 00-0108	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	1,026.19	145.26
08 63 13 00-0109	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	1,224.28	170.30
08 63 13 00-0110	EA		63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	1,434.09	180.32
08 63 13 00-0111			Double Hip Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0002)</small>		
08 63 13 00-0112			Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0111)</small>		
			Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0113	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	771.54	135.24
08 63 13 00-0114	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,031.89	160.28
08 63 13 00-0115	EA		27-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,197.31	170.30
08 63 13 00-0116	EA		39-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	987.06	160.28
08 63 13 00-0117	EA		39-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,071.96	170.30
08 63 13 00-0118	EA		39-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,258.70	180.32
08 63 13 00-0119	EA		39-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,452.85	195.35
08 63 13 00-0120	EA		51-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,118.96	175.31
08 63 13 00-0121	EA		51-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,217.34	180.32
08 63 13 00-0122	EA		51-1/4" x 87-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,323.56	185.33
08 63 13 00-0123	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,441.98	200.36
08 63 13 00-0124	EA		52-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,667.89	210.37
08 63 13 00-0125	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,364.92	190.34
08 63 13 00-0126	EA		63-1/4" x 87-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,510.30	195.35
08 63 13 00-0127	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,611.29	205.37
08 63 13 00-0128	EA		63-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,829.38	215.38
08 63 13 00-0129			Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0111)</small>		
			Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0130	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	860.33	135.24
08 63 13 00-0131	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	994.43	145.26
08 63 13 00-0132	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,225.14	160.28
08 63 13 00-0133	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,002.69	145.26
08 63 13 00-0134	EA		39-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,100.64	155.28



Openings	08	08
Roof Windows and Skylights	08 60	
Metal-Framed Skylights	08 63	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0135	EA	39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,180.32	160.28
08 63 13 00-0136	EA	39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,265.21	170.30
08 63 13 00-0137	EA	39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,423.22	180.32
08 63 13 00-0138	EA	51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,192.94	175.31
08 63 13 00-0139	EA	51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,283.49	175.31
08 63 13 00-0140	EA	51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,381.86	180.32
08 63 13 00-0141	EA	51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,482.86	185.33
08 63 13 00-0142	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,603.90	200.36
08 63 13 00-0143	EA	63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,387.09	180.32
08 63 13 00-0144	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,511.16	190.34
08 63 13 00-0145	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,625.20	195.35
08 63 13 00-0146	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,715.75	205.37
08 63 13 00-0147		Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0111)</small>		
		Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0148	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	986.59	145.26
08 63 13 00-0149	EA	27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,259.09	160.28
08 63 13 00-0150	EA	39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,209.04	160.28
08 63 13 00-0151	EA	39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,299.16	170.30
08 63 13 00-0152	EA	39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,465.00	180.32
08 63 13 00-0153	EA	51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,314.83	175.31
08 63 13 00-0154	EA	51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,421.04	180.32
08 63 13 00-0155	EA	51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,529.87	185.33
08 63 13 00-0156	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,645.68	200.36
08 63 13 00-0157	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,558.17	190.34
08 63 13 00-0158	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,677.43	195.35
08 63 13 00-0159	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,773.21	205.37
08 63 13 00-0160		Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0001)</small>		
08 63 13 00-0161		Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0160)</small>		
		Note: UL listed or FM approved. Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, curb seal tape, weather sweep, fasteners, fusible link with a minimum temperature rating of 165 degrees, gas shocks and exterior manual release cable for testing.		
08 63 13 00-0162		Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0161)</small>		
08 63 13 00-0163		10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0162)</small>		
08 63 13 00-0164	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	3,651.31	200.36
08 63 13 00-0165	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	3,393.63	190.34
08 63 13 00-0166	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	3,826.28	200.36
08 63 13 00-0167		25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0162)</small>		
08 63 13 00-0168	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	4,693.30	200.36
08 63 13 00-0169	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	4,446.06	190.34

08 Openings**08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0170	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,930.95	200.36
08 63 13 00-0171		30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0162)		
08 63 13 00-0172	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,993.62	200.36
08 63 13 00-0173	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,741.16	190.34
08 63 13 00-0174	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	5,226.05	200.36
08 63 13 00-0175		Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0161)		
08 63 13 00-0176		10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0175)		
08 63 13 00-0177	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	3,666.98	200.36
08 63 13 00-0178	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	3,409.29	190.34
08 63 13 00-0179	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	3,849.79	200.36
08 63 13 00-0180		25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0175)		
08 63 13 00-0181	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,714.19	200.36
08 63 13 00-0182	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,461.73	190.34
08 63 13 00-0183	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,957.06	200.36
08 63 13 00-0184		30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0175)		
08 63 13 00-0185	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	5,009.29	200.36
08 63 13 00-0186	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,756.83	190.34
08 63 13 00-0187	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	5,252.16	200.36
08 66 Wood-Framed Skylights (08 60)				
08 66 00 00-0001		Wood-Framed Skylights (Andersen 400 Series) (08 66)		
08 66 00 00-0002	EA	16-1/2" x 38", Domed, Wood-Framed Skylight (Andersen 400 Series).....	713.74	151.55
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	102.66	
		<i>For Aluminum Shingle Flashing, Add</i>	82.13	
08 66 00 00-0003	EA	16-1/2" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	730.50	151.55
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	106.85	
		<i>For Aluminum Shingle Flashing, Add</i>	85.48	
08 66 00 00-0004	EA	24-1/2" x 27", Domed, Wood-Framed Skylight (Andersen 400 Series).....	690.70	151.55
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	96.90	
		<i>For Aluminum Shingle Flashing, Add</i>	77.52	
08 66 00 00-0005	EA	24-1/2" x 38", Domed, Wood-Framed Skylight (Andersen 400 Series).....	743.08	151.55
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	109.99	
		<i>For Aluminum Shingle Flashing, Add</i>	87.99	
08 66 00 00-0006	EA	24-1/2" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	787.07	151.55
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	120.99	
		<i>For Aluminum Shingle Flashing, Add</i>	96.79	
08 66 00 00-0007	EA	24-1/2" x 57", Domed, Wood-Framed Skylight (Andersen 400 Series).....	858.30	151.55
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	138.80	
		<i>For Aluminum Shingle Flashing, Add</i>	111.04	
08 66 00 00-0008	EA	24-1/2" x 72", Domed, Wood-Framed Skylight (Andersen 400 Series).....	948.39	151.55
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	161.32	
		<i>For Aluminum Shingle Flashing, Add</i>	129.06	
08 66 00 00-0009	EA	27" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series).....	690.70	151.55
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	96.90	
		<i>For Aluminum Shingle Flashing, Add</i>	77.52	
08 66 00 00-0010	EA	28" x 38", Domed, Wood-Framed Skylight (Andersen 400 Series).....	797.55	151.55
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	123.61	
		<i>For Aluminum Shingle Flashing, Add</i>	98.89	
08 66 00 00-0011	EA	28" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	858.30	151.55
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	138.80	
		<i>For Aluminum Shingle Flashing, Add</i>	111.04	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 66 00 00-0012	EA			28" x 57", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	927.44 156.08 124.87	151.55
08 66 00 00-0013	EA			28" x 72", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	1,019.62 179.13 143.30	151.55
08 66 00 00-0014	EA			38" x 16-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	713.74 102.66 82.13	151.55
08 66 00 00-0015	EA			38" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	743.08 109.99 87.99	151.55
08 66 00 00-0016	EA			38" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	797.55 123.61 98.89	151.55
08 66 00 00-0017	EA			44" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	990.29 171.80 137.44	151.55
08 66 00 00-0018	EA			46" x 16-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	730.50 106.85 85.48	151.55
08 66 00 00-0019	EA			46" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	787.07 120.99 96.79	151.55
08 66 00 00-0020	EA			46" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	858.30 138.80 111.04	151.55
08 66 00 00-0021	EA			46" x 44", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	990.29 171.80 137.44	151.55
08 66 00 00-0022	EA			57" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	858.30 138.80 111.04	151.55
08 66 00 00-0023	EA			57" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	927.44 156.08 124.87	151.55
08 66 00 00-0024	EA			72" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	948.39 161.32 129.06	151.55
08 66 00 00-0025	EA			72" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	1,019.62 179.13 143.30	151.55

08 90 Louvers and Vents (08)

08 91 Louvers (08 90)

08 91 13 Motorized Wall Louvers (08 91)

08 91 13 00-0001 Motorized Wall Louver Actuator (08 91 13)

See CSI section 08 91 16 00-0001 for adjustable intake wall louvers.						
08 91 13 00-0002	EA			115 Volt Actuator For Adjustable Intake Louver	2,074.98	124.19
08 91 13 00-0003	EA			230 Volt Actuator For Adjustable Intake Louver	3,172.52	124.19
08 91 13 00-0004	EA			24 Volt Actuator For Adjustable Intake Louver	2,231.42	124.19
08 91 13 00-0005	EA			115 Volt Hazardous Location Actuator For Adjustable Intake Louver.....	8,673.64	124.19

08 91 16 Operable Wall Louvers (08 91)

08 91 16 00-0001 Adjustable Intake Wall Louvers (08 91 16)

See CSI section 08 91 16 00-0137 for adjustable intake wall louver operators.						
08 91 16 00-0002	EA			12" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	568.07	32.88
					50.23	
<i>For Flange Frame, Add</i>					100.46	
<i>For Clear Lacquer Finish, Add</i>					150.70	
<i>For Baked Enamel Standard Colors, Add</i>					200.93	
<i>For Anodized Finish, Add</i>					276.28	
08 91 16 00-0003	EA			12" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	709.79	40.18
					62.94	
<i>For Flange Frame, Add</i>					125.89	
<i>For Clear Lacquer Finish, Add</i>					188.83	
<i>For Baked Enamel Standard Colors, Add</i>					251.77	
<i>For Anodized Finish, Add</i>					346.19	
08 91 16 00-0004	EA			12" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	839.28	47.49
					74.43	
<i>For Flange Frame, Add</i>					148.86	
<i>For Clear Lacquer Finish, Add</i>					223.30	
<i>For Baked Enamel Standard Colors, Add</i>					297.73	
<i>For Anodized Finish, Add</i>					409.38	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0005	EA	12" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	982.23	54.79
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	87.27	
		<i>For Clear Lacquer Finish, Add</i>	174.53	
		<i>For Baked Enamel Standard Colors, Add</i>	261.80	
		<i>For Anodized Finish, Add</i>	349.06	
		<i>For Kynar® Standard Colors Finish, Add</i>	479.96	
08 91 16 00-0006	EA	12" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,106.84	62.10
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	98.27	
		<i>For Clear Lacquer Finish, Add</i>	196.53	
		<i>For Baked Enamel Standard Colors, Add</i>	294.80	
		<i>For Anodized Finish, Add</i>	393.06	
		<i>For Kynar® Standard Colors Finish, Add</i>	540.46	
08 91 16 00-0007	EA	12" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,306.00	69.40
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	116.72	
		<i>For Clear Lacquer Finish, Add</i>	233.44	
		<i>For Baked Enamel Standard Colors, Add</i>	350.16	
		<i>For Anodized Finish, Add</i>	466.88	
		<i>For Kynar® Standard Colors Finish, Add</i>	641.96	
08 91 16 00-0008	EA	12" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,488.05	76.71
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	133.46	
		<i>For Clear Lacquer Finish, Add</i>	266.93	
		<i>For Baked Enamel Standard Colors, Add</i>	400.39	
		<i>For Anodized Finish, Add</i>	533.86	
		<i>For Kynar® Standard Colors Finish, Add</i>	734.05	
08 91 16 00-0009	EA	12" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,652.97	87.67
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	147.76	
		<i>For Clear Lacquer Finish, Add</i>	295.53	
		<i>For Baked Enamel Standard Colors, Add</i>	443.29	
		<i>For Anodized Finish, Add</i>	591.06	
		<i>For Kynar® Standard Colors Finish, Add</i>	812.70	
08 91 16 00-0010	EA	12" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,764.13	94.96
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	157.42	
		<i>For Clear Lacquer Finish, Add</i>	314.84	
		<i>For Baked Enamel Standard Colors, Add</i>	472.26	
		<i>For Anodized Finish, Add</i>	629.68	
		<i>For Kynar® Standard Colors Finish, Add</i>	865.80	
08 91 16 00-0011	EA	12" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,903.41	102.27
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	169.89	
		<i>For Clear Lacquer Finish, Add</i>	339.77	
		<i>For Baked Enamel Standard Colors, Add</i>	509.66	
		<i>For Anodized Finish, Add</i>	679.54	
		<i>For Kynar® Standard Colors Finish, Add</i>	934.37	
08 91 16 00-0012	EA	12" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,025.57	109.58
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	180.64	
		<i>For Clear Lacquer Finish, Add</i>	361.28	
		<i>For Baked Enamel Standard Colors, Add</i>	541.92	
		<i>For Anodized Finish, Add</i>	722.56	
		<i>For Kynar® Standard Colors Finish, Add</i>	993.53	
08 91 16 00-0013	EA	12" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,181.96	116.88
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	194.82	
		<i>For Clear Lacquer Finish, Add</i>	389.64	
		<i>For Baked Enamel Standard Colors, Add</i>	584.46	
		<i>For Anodized Finish, Add</i>	779.28	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,071.50	
08 91 16 00-0014	EA	12" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,332.23	124.19
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	208.39	
		<i>For Clear Lacquer Finish, Add</i>	416.77	
		<i>For Baked Enamel Standard Colors, Add</i>	625.16	
		<i>For Anodized Finish, Add</i>	833.54	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,146.12	
08 91 16 00-0015	EA	12" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,519.15	135.15
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	224.89	
		<i>For Clear Lacquer Finish, Add</i>	449.77	
		<i>For Baked Enamel Standard Colors, Add</i>	674.66	
		<i>For Anodized Finish, Add</i>	899.54	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,236.87	
08 91 16 00-0016	EA	12" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,657.17	146.10
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	236.50	
		<i>For Clear Lacquer Finish, Add</i>	472.99	
		<i>For Baked Enamel Standard Colors, Add</i>	709.49	
		<i>For Anodized Finish, Add</i>	945.98	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,300.73	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0017	EA			18" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	637.68	40.18
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	55.73	
				For Clear Lacquer Finish, Add	111.46	
				For Baked Enamel Standard Colors, Add	167.20	
				For Anodized Finish, Add	222.93	
				For Kynar® Standard Colors Finish, Add	306.53	
08 91 16 00-0018	EA			18" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	805.03	51.14
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	70.28	
				For Clear Lacquer Finish, Add	140.55	
				For Baked Enamel Standard Colors, Add	210.83	
				For Anodized Finish, Add	281.10	
				For Kynar® Standard Colors Finish, Add	386.52	
08 91 16 00-0019	EA			18" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	944.31	58.45
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	82.74	
				For Clear Lacquer Finish, Add	165.49	
				For Baked Enamel Standard Colors, Add	248.23	
				For Anodized Finish, Add	330.97	
				For Kynar® Standard Colors Finish, Add	455.09	
08 91 16 00-0020	EA			18" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,175.19	73.06
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	102.91	
				For Clear Lacquer Finish, Add	205.82	
				For Baked Enamel Standard Colors, Add	308.73	
				For Anodized Finish, Add	411.64	
				For Kynar® Standard Colors Finish, Add	566.00	
08 91 16 00-0021	EA			18" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,336.48	80.36
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	117.58	
				For Clear Lacquer Finish, Add	235.15	
				For Baked Enamel Standard Colors, Add	352.73	
				For Anodized Finish, Add	470.30	
				For Kynar® Standard Colors Finish, Add	646.67	
08 91 16 00-0022	EA			18" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,497.75	87.67
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	132.24	
				For Clear Lacquer Finish, Add	264.48	
				For Baked Enamel Standard Colors, Add	396.73	
				For Anodized Finish, Add	528.97	
				For Kynar® Standard Colors Finish, Add	727.33	
08 91 16 00-0023	EA			18" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,690.80	94.96
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	150.09	
				For Clear Lacquer Finish, Add	300.17	
				For Baked Enamel Standard Colors, Add	450.26	
				For Anodized Finish, Add	600.34	
				For Kynar® Standard Colors Finish, Add	825.47	
08 91 16 00-0024	EA			18" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,875.27	105.92
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	166.34	
				For Clear Lacquer Finish, Add	332.68	
				For Baked Enamel Standard Colors, Add	499.02	
				For Anodized Finish, Add	665.36	
				For Kynar® Standard Colors Finish, Add	914.88	
08 91 16 00-0025	EA			18" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,023.07	116.88
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	178.93	
				For Clear Lacquer Finish, Add	357.86	
				For Baked Enamel Standard Colors, Add	536.79	
				For Anodized Finish, Add	715.72	
				For Kynar® Standard Colors Finish, Add	984.12	
08 91 16 00-0026	EA			18" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,164.79	124.19
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	191.64	
				For Clear Lacquer Finish, Add	383.28	
				For Baked Enamel Standard Colors, Add	574.92	
				For Anodized Finish, Add	766.56	
				For Kynar® Standard Colors Finish, Add	1,054.03	
08 91 16 00-0027	EA			18" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,297.96	131.49
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	203.50	
				For Clear Lacquer Finish, Add	406.99	
				For Baked Enamel Standard Colors, Add	610.49	
				For Anodized Finish, Add	813.98	
				For Kynar® Standard Colors Finish, Add	1,119.23	
08 91 16 00-0028	EA			18" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,470.24	138.80
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	219.26	
				For Clear Lacquer Finish, Add	438.53	
				For Baked Enamel Standard Colors, Add	657.79	
				For Anodized Finish, Add	877.05	
				For Kynar® Standard Colors Finish, Add	1,205.95	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0029 EA 18" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,636.39	146.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	234.42	
For Clear Lacquer Finish, Add	468.84	
For Baked Enamel Standard Colors, Add	703.25	
For Anodized Finish, Add	937.67	
For Kynar® Standard Colors Finish, Add	1,289.30	
08 91 16 00-0030 EA 18" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,839.19	157.06
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	252.51	
For Clear Lacquer Finish, Add	505.01	
For Baked Enamel Standard Colors, Add	757.52	
For Anodized Finish, Add	1,010.03	
For Kynar® Standard Colors Finish, Add	1,388.79	
08 91 16 00-0031 EA 18" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,993.10	168.02
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	265.71	
For Clear Lacquer Finish, Add	531.41	
For Baked Enamel Standard Colors, Add	797.12	
For Anodized Finish, Add	1,062.82	
For Kynar® Standard Colors Finish, Add	1,461.38	
08 91 16 00-0032 EA 24" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	713.39	47.49
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	61.84	
For Clear Lacquer Finish, Add	123.69	
For Baked Enamel Standard Colors, Add	185.53	
For Anodized Finish, Add	247.37	
For Kynar® Standard Colors Finish, Add	340.14	
08 91 16 00-0033 EA 24" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	905.20	58.45
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	78.83	
For Clear Lacquer Finish, Add	157.66	
For Baked Enamel Standard Colors, Add	236.50	
For Anodized Finish, Add	315.33	
For Kynar® Standard Colors Finish, Add	433.58	
08 91 16 00-0034 EA 24" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,121.45	69.40
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	98.27	
For Clear Lacquer Finish, Add	196.53	
For Baked Enamel Standard Colors, Add	294.80	
For Anodized Finish, Add	393.06	
For Kynar® Standard Colors Finish, Add	540.46	
08 91 16 00-0035 EA 24" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,323.00	84.02
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	115.50	
For Clear Lacquer Finish, Add	231.00	
For Baked Enamel Standard Colors, Add	346.49	
For Anodized Finish, Add	461.99	
For Kynar® Standard Colors Finish, Add	635.24	
08 91 16 00-0036 EA 24" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,500.16	91.32
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	131.75	
For Clear Lacquer Finish, Add	263.51	
For Baked Enamel Standard Colors, Add	395.26	
For Anodized Finish, Add	527.01	
For Kynar® Standard Colors Finish, Add	724.64	
08 91 16 00-0037 EA 24" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,687.10	98.62
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	148.99	
For Clear Lacquer Finish, Add	297.97	
For Baked Enamel Standard Colors, Add	446.96	
For Anodized Finish, Add	595.94	
For Kynar® Standard Colors Finish, Add	819.42	
08 91 16 00-0038 EA 24" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,918.02	109.58
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	169.89	
For Clear Lacquer Finish, Add	339.77	
For Baked Enamel Standard Colors, Add	509.66	
For Anodized Finish, Add	679.54	
For Kynar® Standard Colors Finish, Add	934.37	
08 91 16 00-0039 EA 24" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,113.46	124.19
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	186.51	
For Clear Lacquer Finish, Add	373.02	
For Baked Enamel Standard Colors, Add	559.52	
For Anodized Finish, Add	746.03	
For Kynar® Standard Colors Finish, Add	1,025.79	
08 91 16 00-0040 EA 24" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,264.96	131.49
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	200.20	
For Clear Lacquer Finish, Add	400.39	
For Baked Enamel Standard Colors, Add	600.59	
For Anodized Finish, Add	800.78	
For Kynar® Standard Colors Finish, Add	1,101.08	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0041	EA			24" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,431.06	146.10
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	213.89	
				For Clear Lacquer Finish, Add	427.77	
				For Baked Enamel Standard Colors, Add	641.66	
				For Anodized Finish, Add	855.54	
				For Kynar® Standard Colors Finish, Add	1,176.37	
08 91 16 00-0042	EA			24" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,585.00	153.41
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	227.82	
				For Clear Lacquer Finish, Add	455.64	
				For Baked Enamel Standard Colors, Add	683.45	
				For Anodized Finish, Add	911.27	
				For Kynar® Standard Colors Finish, Add	1,253.00	
08 91 16 00-0043	EA			24" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,793.94	160.72
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	247.25	
				For Clear Lacquer Finish, Add	494.50	
				For Baked Enamel Standard Colors, Add	741.75	
				For Anodized Finish, Add	989.00	
				For Kynar® Standard Colors Finish, Add	1,359.88	
08 91 16 00-0044	EA			24" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,971.10	168.02
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	263.51	
				For Clear Lacquer Finish, Add	527.01	
				For Baked Enamel Standard Colors, Add	790.52	
				For Anodized Finish, Add	1,054.02	
				For Kynar® Standard Colors Finish, Add	1,449.28	
08 91 16 00-0045	EA			24" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	3,194.69	178.98
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	283.67	
				For Clear Lacquer Finish, Add	567.35	
				For Baked Enamel Standard Colors, Add	851.02	
				For Anodized Finish, Add	1,134.69	
				For Kynar® Standard Colors Finish, Add	1,560.20	
08 91 16 00-0046	EA			24" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	3,359.60	189.94
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	297.97	
				For Clear Lacquer Finish, Add	595.94	
				For Baked Enamel Standard Colors, Add	893.92	
				For Anodized Finish, Add	1,191.89	
				For Kynar® Standard Colors Finish, Add	1,638.85	
08 91 16 00-0047	EA			30" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	795.23	54.79
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	68.57	
				For Clear Lacquer Finish, Add	137.13	
				For Baked Enamel Standard Colors, Add	205.70	
				For Anodized Finish, Add	274.26	
				For Kynar® Standard Colors Finish, Add	377.11	
08 91 16 00-0048	EA			30" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,059.08	73.06
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	91.30	
				For Clear Lacquer Finish, Add	182.60	
				For Baked Enamel Standard Colors, Add	273.89	
				For Anodized Finish, Add	365.19	
				For Kynar® Standard Colors Finish, Add	502.14	
08 91 16 00-0049	EA			30" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,257.00	84.02
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	108.90	
				For Clear Lacquer Finish, Add	217.80	
				For Baked Enamel Standard Colors, Add	326.69	
				For Anodized Finish, Add	435.59	
				For Kynar® Standard Colors Finish, Add	598.94	
08 91 16 00-0050	EA			30" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,473.25	94.96
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	128.33	
				For Clear Lacquer Finish, Add	256.66	
				For Baked Enamel Standard Colors, Add	384.99	
				For Anodized Finish, Add	513.32	
				For Kynar® Standard Colors Finish, Add	705.82	
08 91 16 00-0051	EA			30" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,666.30	102.27
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	146.18	
				For Clear Lacquer Finish, Add	292.35	
				For Baked Enamel Standard Colors, Add	438.53	
				For Anodized Finish, Add	584.70	
				For Kynar® Standard Colors Finish, Add	803.96	
08 91 16 00-0052	EA			30" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,866.66	113.23
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	164.02	
				For Clear Lacquer Finish, Add	328.04	
				For Baked Enamel Standard Colors, Add	492.06	
				For Anodized Finish, Add	656.08	
				For Kynar® Standard Colors Finish, Add	902.10	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0053	EA	30" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	2,106.16	120.53
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	186.51	
		<i>For Clear Lacquer Finish, Add</i>	373.02	
		<i>For Baked Enamel Standard Colors, Add</i>	559.52	
		<i>For Anodized Finish, Add</i>	746.03	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,025.79	
08 91 16 00-0054	EA	30" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,311.41	131.49
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	204.84	
		<i>For Clear Lacquer Finish, Add</i>	409.68	
		<i>For Baked Enamel Standard Colors, Add</i>	614.52	
		<i>For Anodized Finish, Add</i>	819.36	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,126.63	
08 91 16 00-0055	EA	30" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,480.01	138.80
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	220.24	
		<i>For Clear Lacquer Finish, Add</i>	440.48	
		<i>For Baked Enamel Standard Colors, Add</i>	660.72	
		<i>For Anodized Finish, Add</i>	880.96	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,211.32	
08 91 16 00-0056	EA	30" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,665.67	153.41
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	235.89	
		<i>For Clear Lacquer Finish, Add</i>	471.77	
		<i>For Baked Enamel Standard Colors, Add</i>	707.66	
		<i>For Anodized Finish, Add</i>	943.54	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,297.37	
08 91 16 00-0057	EA	30" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,842.81	164.37
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	251.41	
		<i>For Clear Lacquer Finish, Add</i>	502.81	
		<i>For Baked Enamel Standard Colors, Add</i>	754.22	
		<i>For Anodized Finish, Add</i>	1,005.63	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,382.74	
08 91 16 00-0058	EA	30" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	3,065.19	171.67
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	272.18	
		<i>For Clear Lacquer Finish, Add</i>	544.37	
		<i>For Baked Enamel Standard Colors, Add</i>	816.55	
		<i>For Anodized Finish, Add</i>	1,088.74	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,497.01	
08 91 16 00-0059	EA	30" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	3,258.24	178.98
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	290.03	
		<i>For Clear Lacquer Finish, Add</i>	580.06	
		<i>For Baked Enamel Standard Colors, Add</i>	870.08	
		<i>For Anodized Finish, Add</i>	1,160.11	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,595.15	
08 91 16 00-0060	EA	30" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	3,492.82	189.94
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	311.29	
		<i>For Clear Lacquer Finish, Add</i>	622.59	
		<i>For Baked Enamel Standard Colors, Add</i>	933.88	
		<i>For Anodized Finish, Add</i>	1,245.18	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,712.12	
08 91 16 00-0061	EA	30" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	3,679.73	200.90
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	327.79	
		<i>For Clear Lacquer Finish, Add</i>	655.59	
		<i>For Baked Enamel Standard Colors, Add</i>	983.38	
		<i>For Anodized Finish, Add</i>	1,311.18	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,802.87	
08 91 16 00-0062	EA	36" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	870.95	62.10
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	74.68	
		<i>For Clear Lacquer Finish, Add</i>	149.35	
		<i>For Baked Enamel Standard Colors, Add</i>	224.03	
		<i>For Anodized Finish, Add</i>	298.70	
		<i>For Kynar® Standard Colors Finish, Add</i>	410.72	
08 91 16 00-0063	EA	36" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,178.81	80.36
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	101.81	
		<i>For Clear Lacquer Finish, Add</i>	203.62	
		<i>For Baked Enamel Standard Colors, Add</i>	305.43	
		<i>For Anodized Finish, Add</i>	407.24	
		<i>For Kynar® Standard Colors Finish, Add</i>	559.95	
08 91 16 00-0064	EA	36" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,377.94	91.32
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	119.53	
		<i>For Clear Lacquer Finish, Add</i>	239.06	
		<i>For Baked Enamel Standard Colors, Add</i>	358.59	
		<i>For Anodized Finish, Add</i>	478.12	
		<i>For Kynar® Standard Colors Finish, Add</i>	657.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0065	EA		36" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,614.97	102.27
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	141.04	
			For Clear Lacquer Finish, Add	282.08	
			For Baked Enamel Standard Colors, Add	423.13	
			For Anodized Finish, Add	564.17	
			For Kynar® Standard Colors Finish, Add	775.73	
08 91 16 00-0066	EA		36" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,834.16	111.04
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	161.21	
			For Clear Lacquer Finish, Add	322.42	
			For Baked Enamel Standard Colors, Add	483.62	
			For Anodized Finish, Add	644.83	
			For Kynar® Standard Colors Finish, Add	886.64	
08 91 16 00-0067	EA		36" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	2,040.16	120.53
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	179.91	
			For Clear Lacquer Finish, Add	359.82	
			For Baked Enamel Standard Colors, Add	539.72	
			For Anodized Finish, Add	719.63	
			For Kynar® Standard Colors Finish, Add	989.49	
08 91 16 00-0068	EA		36" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	2,307.76	127.84
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	205.21	
			For Clear Lacquer Finish, Add	410.41	
			For Baked Enamel Standard Colors, Add	615.62	
			For Anodized Finish, Add	820.83	
			For Kynar® Standard Colors Finish, Add	1,128.64	
08 91 16 00-0069	EA		36" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,538.68	138.80
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	226.11	
			For Clear Lacquer Finish, Add	452.21	
			For Baked Enamel Standard Colors, Add	678.32	
			For Anodized Finish, Add	904.43	
			For Kynar® Standard Colors Finish, Add	1,243.59	
08 91 16 00-0070	EA		36" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,726.80	149.76
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	242.73	
			For Clear Lacquer Finish, Add	485.46	
			For Baked Enamel Standard Colors, Add	728.19	
			For Anodized Finish, Add	970.92	
			For Kynar® Standard Colors Finish, Add	1,335.01	
08 91 16 00-0071	EA		36" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,919.83	160.72
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	259.84	
			For Clear Lacquer Finish, Add	519.68	
			For Baked Enamel Standard Colors, Add	779.52	
			For Anodized Finish, Add	1,039.36	
			For Kynar® Standard Colors Finish, Add	1,429.12	
08 91 16 00-0072	EA		36" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	3,118.97	171.67
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	277.56	
			For Clear Lacquer Finish, Add	555.12	
			For Baked Enamel Standard Colors, Add	832.69	
			For Anodized Finish, Add	1,110.25	
			For Kynar® Standard Colors Finish, Add	1,526.59	
08 91 16 00-0073	EA		36" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	3,362.13	178.98
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	300.42	
			For Clear Lacquer Finish, Add	600.83	
			For Baked Enamel Standard Colors, Add	901.25	
			For Anodized Finish, Add	1,201.67	
			For Kynar® Standard Colors Finish, Add	1,652.29	
08 91 16 00-0074	EA		36" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	3,569.85	186.29
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	319.73	
			For Clear Lacquer Finish, Add	639.46	
			For Baked Enamel Standard Colors, Add	959.18	
			For Anodized Finish, Add	1,278.91	
			For Kynar® Standard Colors Finish, Add	1,758.50	
08 91 16 00-0075	EA		36" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	3,834.98	197.24
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	344.05	
			For Clear Lacquer Finish, Add	688.10	
			For Baked Enamel Standard Colors, Add	1,032.15	
			For Anodized Finish, Add	1,376.20	
			For Kynar® Standard Colors Finish, Add	1,892.27	
08 91 16 00-0076	EA		36" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	4,032.89	208.20
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	361.65	
			For Clear Lacquer Finish, Add	723.30	
			For Baked Enamel Standard Colors, Add	1,084.95	
			For Anodized Finish, Add	1,446.60	
			For Kynar® Standard Colors Finish, Add	1,989.07	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0077	EA	42" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	996.78	69.40
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	85.80	
		<i>For Clear Lacquer Finish, Add</i>	171.60	
		<i>For Baked Enamel Standard Colors, Add</i>	257.39	
		<i>For Anodized Finish, Add</i>	343.19	
		<i>For Kynar® Standard Colors Finish, Add</i>	471.89	
08 91 16 00-0078	EA	42" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,271.64	87.67
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	109.63	
		<i>For Clear Lacquer Finish, Add</i>	219.26	
		<i>For Baked Enamel Standard Colors, Add</i>	328.89	
		<i>For Anodized Finish, Add</i>	438.52	
		<i>For Kynar® Standard Colors Finish, Add</i>	602.97	
08 91 16 00-0079	EA	42" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,492.77	98.62
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	129.55	
		<i>For Clear Lacquer Finish, Add</i>	259.11	
		<i>For Baked Enamel Standard Colors, Add</i>	388.66	
		<i>For Anodized Finish, Add</i>	518.21	
		<i>For Kynar® Standard Colors Finish, Add</i>	712.54	
08 91 16 00-0080	EA	42" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,745.66	113.23
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	151.92	
		<i>For Clear Lacquer Finish, Add</i>	303.84	
		<i>For Baked Enamel Standard Colors, Add</i>	455.76	
		<i>For Anodized Finish, Add</i>	607.68	
		<i>For Kynar® Standard Colors Finish, Add</i>	835.55	
08 91 16 00-0081	EA	42" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,979.05	120.53
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	173.80	
		<i>For Clear Lacquer Finish, Add</i>	347.59	
		<i>For Baked Enamel Standard Colors, Add</i>	521.39	
		<i>For Anodized Finish, Add</i>	695.19	
		<i>For Kynar® Standard Colors Finish, Add</i>	955.88	
08 91 16 00-0082	EA	42" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	2,200.21	127.84
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	194.45	
		<i>For Clear Lacquer Finish, Add</i>	388.90	
		<i>For Baked Enamel Standard Colors, Add</i>	583.36	
		<i>For Anodized Finish, Add</i>	777.81	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,069.49	
08 91 16 00-0083	EA	42" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	2,491.04	135.15
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	222.07	
		<i>For Clear Lacquer Finish, Add</i>	444.15	
		<i>For Baked Enamel Standard Colors, Add</i>	666.22	
		<i>For Anodized Finish, Add</i>	888.30	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,221.41	
08 91 16 00-0084	EA	42" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,725.61	146.10
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	243.34	
		<i>For Clear Lacquer Finish, Add</i>	486.68	
		<i>For Baked Enamel Standard Colors, Add</i>	730.02	
		<i>For Anodized Finish, Add</i>	973.36	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,338.37	
08 91 16 00-0085	EA	42" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,936.96	157.06
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	262.28	
		<i>For Clear Lacquer Finish, Add</i>	524.57	
		<i>For Baked Enamel Standard Colors, Add</i>	786.85	
		<i>For Anodized Finish, Add</i>	1,049.14	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,442.56	
08 91 16 00-0086	EA	42" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	3,134.88	168.02
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	279.88	
		<i>For Clear Lacquer Finish, Add</i>	559.77	
		<i>For Baked Enamel Standard Colors, Add</i>	839.65	
		<i>For Anodized Finish, Add</i>	1,119.54	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,539.36	
08 91 16 00-0087	EA	42" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	3,351.13	178.98
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	299.32	
		<i>For Clear Lacquer Finish, Add</i>	598.63	
		<i>For Baked Enamel Standard Colors, Add</i>	897.95	
		<i>For Anodized Finish, Add</i>	1,197.27	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,646.24	
08 91 16 00-0088	EA	42" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	3,612.62	186.29
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	324.01	
		<i>For Clear Lacquer Finish, Add</i>	648.01	
		<i>For Baked Enamel Standard Colors, Add</i>	972.02	
		<i>For Anodized Finish, Add</i>	1,296.02	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,782.03	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0089	EA		42" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,839.90	193.59
			<i>For Flange Frame, Add</i>	345.27	
			<i>For Clear Lacquer Finish, Add</i>	690.54	
			<i>For Baked Enamel Standard Colors, Add</i>	1,035.82	
			<i>For Anodized Finish, Add</i>	1,381.09	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,899.00	
08 91 16 00-0090	EA		42" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,136.81	204.55
			<i>For Flange Frame, Add</i>	372.77	
			<i>For Clear Lacquer Finish, Add</i>	745.54	
			<i>For Baked Enamel Standard Colors, Add</i>	1,118.31	
			<i>For Anodized Finish, Add</i>	1,491.08	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,050.24	
08 91 16 00-0091	EA		42" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,343.28	215.51
			<i>For Flange Frame, Add</i>	391.23	
			<i>For Clear Lacquer Finish, Add</i>	782.45	
			<i>For Baked Enamel Standard Colors, Add</i>	1,173.68	
			<i>For Anodized Finish, Add</i>	1,564.90	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,151.74	
08 91 16 00-0092	EA		48" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,078.62	76.71
			<i>For Flange Frame, Add</i>	92.52	
			<i>For Clear Lacquer Finish, Add</i>	185.04	
			<i>For Baked Enamel Standard Colors, Add</i>	277.56	
			<i>For Anodized Finish, Add</i>	370.08	
			<i>For Kynar® Standard Colors Finish, Add</i>	508.87	
08 91 16 00-0093	EA		48" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,370.59	94.96
			<i>For Flange Frame, Add</i>	118.07	
			<i>For Clear Lacquer Finish, Add</i>	236.13	
			<i>For Baked Enamel Standard Colors, Add</i>	354.20	
			<i>For Anodized Finish, Add</i>	472.26	
			<i>For Kynar® Standard Colors Finish, Add</i>	649.36	
08 91 16 00-0094	EA		48" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,622.25	109.58
			<i>For Flange Frame, Add</i>	140.31	
			<i>For Clear Lacquer Finish, Add</i>	280.62	
			<i>For Baked Enamel Standard Colors, Add</i>	420.93	
			<i>For Anodized Finish, Add</i>	561.24	
			<i>For Kynar® Standard Colors Finish, Add</i>	771.70	
08 91 16 00-0095	EA		48" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,881.27	120.53
			<i>For Flange Frame, Add</i>	164.02	
			<i>For Clear Lacquer Finish, Add</i>	328.04	
			<i>For Baked Enamel Standard Colors, Add</i>	492.06	
			<i>For Anodized Finish, Add</i>	656.08	
			<i>For Kynar® Standard Colors Finish, Add</i>	902.10	
08 91 16 00-0096	EA		48" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,139.10	127.84
			<i>For Flange Frame, Add</i>	188.34	
			<i>For Clear Lacquer Finish, Add</i>	376.68	
			<i>For Baked Enamel Standard Colors, Add</i>	565.02	
			<i>For Anodized Finish, Add</i>	753.36	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,035.88	
08 91 16 00-0097	EA		48" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,388.37	135.15
			<i>For Flange Frame, Add</i>	211.81	
			<i>For Clear Lacquer Finish, Add</i>	423.61	
			<i>For Baked Enamel Standard Colors, Add</i>	635.42	
			<i>For Anodized Finish, Add</i>	847.23	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,164.94	
08 91 16 00-0098	EA		48" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,698.72	146.10
			<i>For Flange Frame, Add</i>	240.65	
			<i>For Clear Lacquer Finish, Add</i>	481.30	
			<i>For Baked Enamel Standard Colors, Add</i>	721.95	
			<i>For Anodized Finish, Add</i>	962.60	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,323.58	
08 91 16 00-0099	EA		48" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,955.29	157.06
			<i>For Flange Frame, Add</i>	264.12	
			<i>For Clear Lacquer Finish, Add</i>	528.23	
			<i>For Baked Enamel Standard Colors, Add</i>	792.35	
			<i>For Anodized Finish, Add</i>	1,056.47	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,452.64	
08 91 16 00-0100	EA		48" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,177.66	168.02
			<i>For Flange Frame, Add</i>	284.16	
			<i>For Clear Lacquer Finish, Add</i>	568.32	
			<i>For Baked Enamel Standard Colors, Add</i>	852.49	
			<i>For Anodized Finish, Add</i>	1,136.65	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,562.89	

08 Openings**08 90 Louvers and Vents****08 91 Louvers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0101 EA 48" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	3,403.68	178.98
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	304.57	
For Clear Lacquer Finish, Add	609.14	
For Baked Enamel Standard Colors, Add	913.72	
For Anodized Finish, Add	1,218.29	
For Kynar® Standard Colors Finish, Add	1,675.15	
08 91 16 00-0102 EA 48" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	3,624.82	189.94
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	324.49	
For Clear Lacquer Finish, Add	648.99	
For Baked Enamel Standard Colors, Add	973.48	
For Anodized Finish, Add	1,297.98	
For Kynar® Standard Colors Finish, Add	1,784.72	
08 91 16 00-0103 EA 48" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	3,920.54	197.24
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	352.61	
For Clear Lacquer Finish, Add	705.21	
For Baked Enamel Standard Colors, Add	1,057.82	
For Anodized Finish, Add	1,410.42	
For Kynar® Standard Colors Finish, Add	1,939.33	
08 91 16 00-0104 EA 48" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	4,166.14	204.55
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	375.70	
For Clear Lacquer Finish, Add	751.41	
For Baked Enamel Standard Colors, Add	1,127.11	
For Anodized Finish, Add	1,502.82	
For Kynar® Standard Colors Finish, Add	2,066.37	
08 91 16 00-0105 EA 48" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	4,469.19	211.86
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	404.55	
For Clear Lacquer Finish, Add	809.10	
For Baked Enamel Standard Colors, Add	1,213.64	
For Anodized Finish, Add	1,618.19	
For Kynar® Standard Colors Finish, Add	2,225.01	
08 91 16 00-0106 EA 48" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	4,696.44	222.81
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	425.08	
For Clear Lacquer Finish, Add	850.16	
For Baked Enamel Standard Colors, Add	1,275.24	
For Anodized Finish, Add	1,700.32	
For Kynar® Standard Colors Finish, Add	2,337.95	
08 91 16 00-0107 EA 54" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	1,252.09	87.67
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	107.68	
For Clear Lacquer Finish, Add	215.35	
For Baked Enamel Standard Colors, Add	323.03	
For Anodized Finish, Add	430.70	
For Kynar® Standard Colors Finish, Add	592.22	
08 91 16 00-0108 EA 54" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,605.17	105.92
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	139.33	
For Clear Lacquer Finish, Add	278.66	
For Baked Enamel Standard Colors, Add	417.99	
For Anodized Finish, Add	557.32	
For Kynar® Standard Colors Finish, Add	766.32	
08 91 16 00-0109 EA 54" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,881.24	124.19
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	163.29	
For Clear Lacquer Finish, Add	326.57	
For Baked Enamel Standard Colors, Add	489.86	
For Anodized Finish, Add	653.14	
For Kynar® Standard Colors Finish, Add	898.07	
08 91 16 00-0110 EA 54" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	2,161.08	131.49
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	189.81	
For Clear Lacquer Finish, Add	379.62	
For Baked Enamel Standard Colors, Add	569.42	
For Anodized Finish, Add	759.23	
For Kynar® Standard Colors Finish, Add	1,043.94	
08 91 16 00-0111 EA 54" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	2,465.35	138.80
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	218.77	
For Clear Lacquer Finish, Add	437.55	
For Baked Enamel Standard Colors, Add	656.32	
For Anodized Finish, Add	875.10	
For Kynar® Standard Colors Finish, Add	1,203.26	
08 91 16 00-0112 EA 54" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	2,737.83	146.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	244.56	
For Clear Lacquer Finish, Add	489.12	
For Baked Enamel Standard Colors, Add	733.69	
For Anodized Finish, Add	978.25	
For Kynar® Standard Colors Finish, Add	1,345.09	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	16	00-0113	EA	54" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	3,098.29	157.06
				<i>For Flange Frame, Add</i>	278.42	
				<i>For Clear Lacquer Finish, Add</i>	556.83	
				<i>For Baked Enamel Standard Colors, Add</i>	835.25	
				<i>For Anodized Finish, Add</i>	1,113.67	
				<i>For Kynar® Standard Colors Finish, Add</i>	1,531.29	
08 91	16	00-0114	EA	54" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	3,448.98	168.02
				<i>For Flange Frame, Add</i>	311.29	
				<i>For Clear Lacquer Finish, Add</i>	622.59	
				<i>For Baked Enamel Standard Colors, Add</i>	933.88	
				<i>For Anodized Finish, Add</i>	1,245.18	
				<i>For Kynar® Standard Colors Finish, Add</i>	1,712.12	
08 91	16	00-0115	EA	54" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	3,711.68	178.98
				<i>For Flange Frame, Add</i>	335.37	
				<i>For Clear Lacquer Finish, Add</i>	670.74	
				<i>For Baked Enamel Standard Colors, Add</i>	1,006.12	
				<i>For Anodized Finish, Add</i>	1,341.49	
				<i>For Kynar® Standard Colors Finish, Add</i>	1,844.55	
08 91	16	00-0116	EA	54" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	3,970.70	189.94
				<i>For Flange Frame, Add</i>	359.08	
				<i>For Clear Lacquer Finish, Add</i>	718.16	
				<i>For Baked Enamel Standard Colors, Add</i>	1,077.25	
				<i>For Anodized Finish, Add</i>	1,436.33	
				<i>For Kynar® Standard Colors Finish, Add</i>	1,974.95	
08 91	16	00-0117	EA	54" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	4,219.98	197.24
				<i>For Flange Frame, Add</i>	382.55	
				<i>For Clear Lacquer Finish, Add</i>	765.10	
				<i>For Baked Enamel Standard Colors, Add</i>	1,147.65	
				<i>For Anodized Finish, Add</i>	1,530.20	
				<i>For Kynar® Standard Colors Finish, Add</i>	2,104.02	
08 91	16	00-0118	EA	54" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	4,549.91	204.55
				<i>For Flange Frame, Add</i>	414.08	
				<i>For Clear Lacquer Finish, Add</i>	828.16	
				<i>For Baked Enamel Standard Colors, Add</i>	1,242.24	
				<i>For Anodized Finish, Add</i>	1,656.32	
				<i>For Kynar® Standard Colors Finish, Add</i>	2,277.45	
08 91	16	00-0119	EA	54" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	4,824.85	211.86
				<i>For Flange Frame, Add</i>	440.11	
				<i>For Clear Lacquer Finish, Add</i>	880.23	
				<i>For Baked Enamel Standard Colors, Add</i>	1,320.34	
				<i>For Anodized Finish, Add</i>	1,760.46	
				<i>For Kynar® Standard Colors Finish, Add</i>	2,420.63	
08 91	16	00-0120	EA	54" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	5,179.23	219.16
				<i>For Flange Frame, Add</i>	474.09	
				<i>For Clear Lacquer Finish, Add</i>	948.18	
				<i>For Baked Enamel Standard Colors, Add</i>	1,422.27	
				<i>For Anodized Finish, Add</i>	1,896.36	
				<i>For Kynar® Standard Colors Finish, Add</i>	2,607.50	
08 91	16	00-0121	EA	54" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	5,444.37	230.12
				<i>For Flange Frame, Add</i>	498.41	
				<i>For Clear Lacquer Finish, Add</i>	996.83	
				<i>For Baked Enamel Standard Colors, Add</i>	1,495.24	
				<i>For Anodized Finish, Add</i>	1,993.65	
				<i>For Kynar® Standard Colors Finish, Add</i>	2,741.27	
08 91	16	00-0122	EA	60" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	1,329.03	94.96
				<i>For Flange Frame, Add</i>	113.91	
				<i>For Clear Lacquer Finish, Add</i>	227.82	
				<i>For Baked Enamel Standard Colors, Add</i>	341.73	
				<i>For Anodized Finish, Add</i>	455.64	
				<i>For Kynar® Standard Colors Finish, Add</i>	626.50	
08 91	16	00-0123	EA	60" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	1,711.41	116.88
				<i>For Flange Frame, Add</i>	147.76	
				<i>For Clear Lacquer Finish, Add</i>	295.53	
				<i>For Baked Enamel Standard Colors, Add</i>	443.29	
				<i>For Anodized Finish, Add</i>	591.06	
				<i>For Kynar® Standard Colors Finish, Add</i>	812.70	
08 91	16	00-0124	EA	60" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	1,993.64	131.49
				<i>For Flange Frame, Add</i>	173.06	
				<i>For Clear Lacquer Finish, Add</i>	346.13	
				<i>For Baked Enamel Standard Colors, Add</i>	519.19	
				<i>For Anodized Finish, Add</i>	692.26	
				<i>For Kynar® Standard Colors Finish, Add</i>	951.85	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0125	EA	60" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,301.57	138.80
		<i>For Flange Frame, Add</i>	202.40	
		<i>For Clear Lacquer Finish, Add</i>	404.79	
		<i>For Baked Enamel Standard Colors, Add</i>	607.19	
		<i>For Anodized Finish, Add</i>	809.58	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,113.18	
08 91 16 00-0126	EA	60" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,624.13	149.76
		<i>For Flange Frame, Add</i>	232.46	
		<i>For Clear Lacquer Finish, Add</i>	464.92	
		<i>For Baked Enamel Standard Colors, Add</i>	697.39	
		<i>For Anodized Finish, Add</i>	929.85	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,278.54	
08 91 16 00-0127	EA	60" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,912.52	157.06
		<i>For Flange Frame, Add</i>	259.84	
		<i>For Clear Lacquer Finish, Add</i>	519.68	
		<i>For Baked Enamel Standard Colors, Add</i>	779.52	
		<i>For Anodized Finish, Add</i>	1,039.36	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,429.12	
08 91 16 00-0128	EA	60" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,298.65	168.02
		<i>For Flange Frame, Add</i>	296.26	
		<i>For Clear Lacquer Finish, Add</i>	592.52	
		<i>For Baked Enamel Standard Colors, Add</i>	888.78	
		<i>For Anodized Finish, Add</i>	1,185.04	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,629.44	
08 91 16 00-0129	EA	60" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,659.12	178.98
		<i>For Flange Frame, Add</i>	330.12	
		<i>For Clear Lacquer Finish, Add</i>	660.23	
		<i>For Baked Enamel Standard Colors, Add</i>	990.35	
		<i>For Anodized Finish, Add</i>	1,320.46	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,815.64	
08 91 16 00-0130	EA	60" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,940.15	189.94
		<i>For Flange Frame, Add</i>	356.03	
		<i>For Clear Lacquer Finish, Add</i>	712.05	
		<i>For Baked Enamel Standard Colors, Add</i>	1,068.08	
		<i>For Anodized Finish, Add</i>	1,424.11	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,958.15	
08 91 16 00-0131	EA	60" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,216.28	200.90
		<i>For Flange Frame, Add</i>	381.45	
		<i>For Clear Lacquer Finish, Add</i>	762.90	
		<i>For Baked Enamel Standard Colors, Add</i>	1,144.35	
		<i>For Anodized Finish, Add</i>	1,525.80	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,097.97	
08 91 16 00-0132	EA	60" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,481.44	208.20
		<i>For Flange Frame, Add</i>	406.50	
		<i>For Clear Lacquer Finish, Add</i>	813.01	
		<i>For Baked Enamel Standard Colors, Add</i>	1,219.51	
		<i>For Anodized Finish, Add</i>	1,626.02	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,235.77	
08 91 16 00-0133	EA	60" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,839.50	215.51
		<i>For Flange Frame, Add</i>	440.85	
		<i>For Clear Lacquer Finish, Add</i>	881.70	
		<i>For Baked Enamel Standard Colors, Add</i>	1,322.54	
		<i>For Anodized Finish, Add</i>	1,763.39	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,424.66	
08 91 16 00-0134	EA	60" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	5,127.88	222.81
		<i>For Flange Frame, Add</i>	468.23	
		<i>For Clear Lacquer Finish, Add</i>	936.45	
		<i>For Baked Enamel Standard Colors, Add</i>	1,404.68	
		<i>For Anodized Finish, Add</i>	1,872.90	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,575.24	
08 91 16 00-0135	EA	60" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	5,500.59	230.12
		<i>For Flange Frame, Add</i>	504.04	
		<i>For Clear Lacquer Finish, Add</i>	1,008.07	
		<i>For Baked Enamel Standard Colors, Add</i>	1,512.11	
		<i>For Anodized Finish, Add</i>	2,016.14	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,772.19	
08 91 16 00-0136	EA	60" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	5,774.30	237.43
		<i>For Flange Frame, Add</i>	529.95	
		<i>For Clear Lacquer Finish, Add</i>	1,059.89	
		<i>For Baked Enamel Standard Colors, Add</i>	1,589.84	
		<i>For Anodized Finish, Add</i>	2,119.78	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,914.70	

08 91 16 00-0137 Adjustable Intake Wall Louvers Operators (08 91 16)



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0138	EA		5' Chain Actuator For Adjustable Intake Louver.....	337.06	36.53
08 91 16 00-0139	EA		Panel Crank For Adjustable Intake Louver	735.65	14.61
08 91 19 Fixed Louvers (08 91)					
08 91 19 00-0001 Fixed Intake Wall Louvers (08 91 19)					
08 91 19 00-0002	EA		12" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	434.85	32.88
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	36.91	
			<i>For Clear Lacquer Finish, Add</i>	73.82	
			<i>For Baked Enamel Standard Colors, Add</i>	110.73	
			<i>For Anodized Finish, Add</i>	147.64	
			<i>For Kynar® Standard Colors Finish, Add</i>	203.01	
08 91 19 00-0003	EA		12" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	516.69	40.18
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	43.63	
			<i>For Clear Lacquer Finish, Add</i>	87.27	
			<i>For Baked Enamel Standard Colors, Add</i>	130.90	
			<i>For Anodized Finish, Add</i>	174.53	
			<i>For Kynar® Standard Colors Finish, Add</i>	239.98	
08 91 19 00-0004	EA		12" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	599.73	47.49
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	50.48	
			<i>For Clear Lacquer Finish, Add</i>	100.95	
			<i>For Baked Enamel Standard Colors, Add</i>	151.43	
			<i>For Anodized Finish, Add</i>	201.91	
			<i>For Kynar® Standard Colors Finish, Add</i>	277.62	
08 91 19 00-0005	EA		12" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	703.57	54.79
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	59.40	
			<i>For Clear Lacquer Finish, Add</i>	118.80	
			<i>For Baked Enamel Standard Colors, Add</i>	178.20	
			<i>For Anodized Finish, Add</i>	237.60	
			<i>For Kynar® Standard Colors Finish, Add</i>	326.69	
08 91 19 00-0006	EA		12" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	791.51	62.10
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	66.73	
			<i>For Clear Lacquer Finish, Add</i>	133.46	
			<i>For Baked Enamel Standard Colors, Add</i>	200.20	
			<i>For Anodized Finish, Add</i>	266.93	
			<i>For Kynar® Standard Colors Finish, Add</i>	367.03	
08 91 19 00-0007	EA		12" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	933.23	69.40
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	79.44	
			<i>For Clear Lacquer Finish, Add</i>	158.89	
			<i>For Baked Enamel Standard Colors, Add</i>	238.33	
			<i>For Anodized Finish, Add</i>	317.77	
			<i>For Kynar® Standard Colors Finish, Add</i>	436.94	
08 91 19 00-0008	EA		12" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,011.39	76.71
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	85.80	
			<i>For Clear Lacquer Finish, Add</i>	171.60	
			<i>For Baked Enamel Standard Colors, Add</i>	257.39	
			<i>For Anodized Finish, Add</i>	343.19	
			<i>For Kynar® Standard Colors Finish, Add</i>	471.89	
08 91 19 00-0009	EA		12" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,131.09	87.67
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	95.58	
			<i>For Clear Lacquer Finish, Add</i>	191.15	
			<i>For Baked Enamel Standard Colors, Add</i>	286.73	
			<i>For Anodized Finish, Add</i>	382.30	
			<i>For Kynar® Standard Colors Finish, Add</i>	525.67	
08 91 19 00-0010	EA		12" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,203.14	94.96
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	101.32	
			<i>For Clear Lacquer Finish, Add</i>	202.64	
			<i>For Baked Enamel Standard Colors, Add</i>	303.96	
			<i>For Anodized Finish, Add</i>	405.28	
			<i>For Kynar® Standard Colors Finish, Add</i>	557.26	
08 91 19 00-0011	EA		12" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,300.86	102.27
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	109.63	
			<i>For Clear Lacquer Finish, Add</i>	219.26	
			<i>For Baked Enamel Standard Colors, Add</i>	328.89	
			<i>For Anodized Finish, Add</i>	438.52	
			<i>For Kynar® Standard Colors Finish, Add</i>	602.97	
08 91 19 00-0012	EA		12" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,386.36	109.58
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	116.72	
			<i>For Clear Lacquer Finish, Add</i>	233.44	
			<i>For Baked Enamel Standard Colors, Add</i>	350.16	
			<i>For Anodized Finish, Add</i>	466.88	
			<i>For Kynar® Standard Colors Finish, Add</i>	641.96	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0013	EA	12" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,487.75	116.88
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	125.40	
		For Clear Lacquer Finish, Add	250.80	
		For Baked Enamel Standard Colors, Add	376.19	
		For Anodized Finish, Add	501.59	
		For Kynar® Standard Colors Finish, Add	689.69	
08 91 19 00-0014	EA	12" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,583.02	124.19
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	133.46	
		For Clear Lacquer Finish, Add	266.93	
		For Baked Enamel Standard Colors, Add	400.39	
		For Anodized Finish, Add	533.86	
		For Kynar® Standard Colors Finish, Add	734.05	
08 91 19 00-0015	EA	12" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,668.50	135.15
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	139.82	
		For Clear Lacquer Finish, Add	279.64	
		For Baked Enamel Standard Colors, Add	419.46	
		For Anodized Finish, Add	559.28	
		For Kynar® Standard Colors Finish, Add	769.01	
08 91 19 00-0016	EA	12" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,782.07	146.10
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	148.99	
		For Clear Lacquer Finish, Add	297.97	
		For Baked Enamel Standard Colors, Add	446.96	
		For Anodized Finish, Add	595.94	
		For Kynar® Standard Colors Finish, Add	819.42	
08 91 19 00-0017	EA	18" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	505.69	40.18
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	42.53	
		For Clear Lacquer Finish, Add	85.07	
		For Baked Enamel Standard Colors, Add	127.60	
		For Anodized Finish, Add	170.13	
		For Kynar® Standard Colors Finish, Add	233.93	
08 91 19 00-0018	EA	18" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	607.04	51.14
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	50.48	
		For Clear Lacquer Finish, Add	100.95	
		For Baked Enamel Standard Colors, Add	151.43	
		For Anodized Finish, Add	201.91	
		For Kynar® Standard Colors Finish, Add	277.62	
08 91 19 00-0019	EA	18" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	703.54	58.45
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	58.67	
		For Clear Lacquer Finish, Add	117.33	
		For Baked Enamel Standard Colors, Add	176.00	
		For Anodized Finish, Add	234.66	
		For Kynar® Standard Colors Finish, Add	322.66	
08 91 19 00-0020	EA	18" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	881.86	73.06
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	73.58	
		For Clear Lacquer Finish, Add	147.15	
		For Baked Enamel Standard Colors, Add	220.73	
		For Anodized Finish, Add	294.30	
		For Kynar® Standard Colors Finish, Add	404.67	
08 91 19 00-0021	EA	18" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,011.37	80.36
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	85.07	
		For Clear Lacquer Finish, Add	170.13	
		For Baked Enamel Standard Colors, Add	255.20	
		For Anodized Finish, Add	340.26	
		For Kynar® Standard Colors Finish, Add	467.86	
08 91 19 00-0022	EA	18" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,126.20	87.67
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	95.09	
		For Clear Lacquer Finish, Add	190.17	
		For Baked Enamel Standard Colors, Add	285.26	
		For Anodized Finish, Add	380.35	
		For Kynar® Standard Colors Finish, Add	522.98	
08 91 19 00-0023	EA	18" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,208.03	94.96
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	101.81	
		For Clear Lacquer Finish, Add	203.62	
		For Baked Enamel Standard Colors, Add	305.43	
		For Anodized Finish, Add	407.24	
		For Kynar® Standard Colors Finish, Add	559.95	
08 91 19 00-0024	EA	18" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,344.84	105.92
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	113.30	
		For Clear Lacquer Finish, Add	226.60	
		For Baked Enamel Standard Colors, Add	339.89	
		For Anodized Finish, Add	453.19	
		For Kynar® Standard Colors Finish, Add	623.14	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0025	EA	18" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,441.30 120.75 241.51 362.26 483.01 664.14	116.88
08 91	19 00-0026	EA	18" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,565.91 131.75 263.51 395.26 527.01 724.64	124.19
08 91	19 00-0027	EA	18" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,661.20 139.82 279.64 419.46 559.28 769.01	131.49
08 91	19 00-0028	EA	18" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,767.47 148.99 297.97 446.96 595.94 819.42	138.80
08 91	19 00-0029	EA	18" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,878.63 158.64 317.28 475.93 634.57 872.53	146.10
08 91	19 00-0030	EA	18" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,977.53 166.34 332.68 499.02 665.36 914.88	157.06
08 91	19 00-0031	EA	18" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,114.34 177.83 355.66 533.49 711.32 978.07	168.02
08 91	19 00-0032	EA	24" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	585.06 49.01 98.02 147.03 196.04 269.56	47.49
08 91	19 00-0033	EA	24" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	697.42 58.05 116.11 174.16 232.22 319.30	58.45
08 91	19 00-0034	EA	24" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	863.56 72.48 144.95 217.43 289.90 398.62	69.40
08 91	19 00-0035	EA	24" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,018.67 85.07 170.13 255.20 340.26 467.86	84.02
08 91	19 00-0036	EA	24" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,165.28 98.27 196.53 294.80 393.06 540.46	91.32

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0037	EA	24" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,300.89	98.62
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	110.37	
		For Clear Lacquer Finish, Add	220.73	
		For Baked Enamel Standard Colors, Add	331.10	
		For Anodized Finish, Add	441.46	
		For Kynar® Standard Colors Finish, Add	607.01	
08 91 19 00-0038	EA	24" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,414.47	109.58
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	119.53	
		For Clear Lacquer Finish, Add	239.06	
		For Baked Enamel Standard Colors, Add	358.59	
		For Anodized Finish, Add	478.12	
		For Kynar® Standard Colors Finish, Add	657.42	
08 91 19 00-0039	EA	24" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,565.91	124.19
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	131.75	
		For Clear Lacquer Finish, Add	263.51	
		For Baked Enamel Standard Colors, Add	395.26	
		For Anodized Finish, Add	527.01	
		For Kynar® Standard Colors Finish, Add	724.64	
08 91 19 00-0040	EA	24" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,666.09	131.49
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	140.31	
		For Clear Lacquer Finish, Add	280.62	
		For Baked Enamel Standard Colors, Add	420.93	
		For Anodized Finish, Add	561.24	
		For Kynar® Standard Colors Finish, Add	771.70	
08 91 19 00-0041	EA	24" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,830.96	146.10
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	153.88	
		For Clear Lacquer Finish, Add	307.75	
		For Baked Enamel Standard Colors, Add	461.63	
		For Anodized Finish, Add	615.50	
		For Kynar® Standard Colors Finish, Add	846.31	
08 91 19 00-0042	EA	24" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,934.79	153.41
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	162.80	
		For Clear Lacquer Finish, Add	325.59	
		For Baked Enamel Standard Colors, Add	488.39	
		For Anodized Finish, Add	651.19	
		For Kynar® Standard Colors Finish, Add	895.38	
08 91 19 00-0043	EA	24" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,069.18	160.72
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	174.78	
		For Clear Lacquer Finish, Add	349.55	
		For Baked Enamel Standard Colors, Add	524.33	
		For Anodized Finish, Add	699.10	
		For Kynar® Standard Colors Finish, Add	961.26	
08 91 19 00-0044	EA	24" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,201.12	168.02
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	186.51	
		For Clear Lacquer Finish, Add	373.02	
		For Baked Enamel Standard Colors, Add	559.52	
		For Anodized Finish, Add	746.03	
		For Kynar® Standard Colors Finish, Add	1,025.79	
08 91 19 00-0045	EA	24" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,302.48	178.98
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	194.45	
		For Clear Lacquer Finish, Add	388.90	
		For Baked Enamel Standard Colors, Add	583.36	
		For Anodized Finish, Add	777.81	
		For Kynar® Standard Colors Finish, Add	1,069.49	
08 91 19 00-0046	EA	24" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,468.62	189.94
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	208.87	
		For Clear Lacquer Finish, Add	417.75	
		For Baked Enamel Standard Colors, Add	626.62	
		For Anodized Finish, Add	835.50	
		For Kynar® Standard Colors Finish, Add	1,148.81	
08 91 19 00-0047	EA	30" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	655.90	54.79
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	54.63	
		For Clear Lacquer Finish, Add	109.26	
		For Baked Enamel Standard Colors, Add	163.90	
		For Anodized Finish, Add	218.53	
		For Kynar® Standard Colors Finish, Add	300.48	
08 91 19 00-0048	EA	30" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	848.86	73.06
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	70.28	
		For Clear Lacquer Finish, Add	140.55	
		For Baked Enamel Standard Colors, Add	210.83	
		For Anodized Finish, Add	281.10	
		For Kynar® Standard Colors Finish, Add	386.52	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0049	EA	30" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	990.56	84.02
			<i>For Flange Frame, Add</i>	82.25	
			<i>For Clear Lacquer Finish, Add</i>	164.51	
			<i>For Baked Enamel Standard Colors, Add</i>	246.76	
			<i>For Anodized Finish, Add</i>	329.02	
			<i>For Kynar® Standard Colors Finish, Add</i>	452.40	
08 91	19 00-0050	EA	30" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,155.48	94.96
			<i>For Flange Frame, Add</i>	96.55	
			<i>For Clear Lacquer Finish, Add</i>	193.11	
			<i>For Baked Enamel Standard Colors, Add</i>	289.66	
			<i>For Anodized Finish, Add</i>	386.22	
			<i>For Kynar® Standard Colors Finish, Add</i>	531.05	
08 91	19 00-0051	EA	30" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,331.42	102.27
			<i>For Flange Frame, Add</i>	112.69	
			<i>For Clear Lacquer Finish, Add</i>	225.37	
			<i>For Baked Enamel Standard Colors, Add</i>	338.06	
			<i>For Anodized Finish, Add</i>	450.75	
			<i>For Kynar® Standard Colors Finish, Add</i>	619.78	
08 91	19 00-0052	EA	30" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,480.45	113.23
			<i>For Flange Frame, Add</i>	125.40	
			<i>For Clear Lacquer Finish, Add</i>	250.80	
			<i>For Baked Enamel Standard Colors, Add</i>	376.19	
			<i>For Anodized Finish, Add</i>	501.59	
			<i>For Kynar® Standard Colors Finish, Add</i>	689.69	
08 91	19 00-0053	EA	30" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,591.61	120.53
			<i>For Flange Frame, Add</i>	135.05	
			<i>For Clear Lacquer Finish, Add</i>	270.11	
			<i>For Baked Enamel Standard Colors, Add</i>	405.16	
			<i>For Anodized Finish, Add</i>	540.21	
			<i>For Kynar® Standard Colors Finish, Add</i>	742.79	
08 91	19 00-0054	EA	30" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,747.97	131.49
			<i>For Flange Frame, Add</i>	148.50	
			<i>For Clear Lacquer Finish, Add</i>	296.99	
			<i>For Baked Enamel Standard Colors, Add</i>	445.49	
			<i>For Anodized Finish, Add</i>	593.99	
			<i>For Kynar® Standard Colors Finish, Add</i>	816.73	
08 91	19 00-0055	EA	30" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,872.58	138.80
			<i>For Flange Frame, Add</i>	159.50	
			<i>For Clear Lacquer Finish, Add</i>	318.99	
			<i>For Baked Enamel Standard Colors, Add</i>	478.49	
			<i>For Anodized Finish, Add</i>	637.99	
			<i>For Kynar® Standard Colors Finish, Add</i>	877.23	
08 91	19 00-0056	EA	30" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,063.12	153.41
			<i>For Flange Frame, Add</i>	175.63	
			<i>For Clear Lacquer Finish, Add</i>	351.26	
			<i>For Baked Enamel Standard Colors, Add</i>	526.89	
			<i>For Anodized Finish, Add</i>	702.52	
			<i>For Kynar® Standard Colors Finish, Add</i>	965.97	
08 91	19 00-0057	EA	30" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,185.26	164.37
			<i>For Flange Frame, Add</i>	185.65	
			<i>For Clear Lacquer Finish, Add</i>	371.30	
			<i>For Baked Enamel Standard Colors, Add</i>	556.96	
			<i>For Anodized Finish, Add</i>	742.61	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,021.09	
08 91	19 00-0058	EA	30" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,328.20	171.67
			<i>For Flange Frame, Add</i>	198.49	
			<i>For Clear Lacquer Finish, Add</i>	396.97	
			<i>For Baked Enamel Standard Colors, Add</i>	595.46	
			<i>For Anodized Finish, Add</i>	793.94	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,091.67	
08 91	19 00-0059	EA	30" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,469.92	178.98
			<i>For Flange Frame, Add</i>	211.20	
			<i>For Clear Lacquer Finish, Add</i>	422.39	
			<i>For Baked Enamel Standard Colors, Add</i>	633.59	
			<i>For Anodized Finish, Add</i>	844.78	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,161.58	
08 91	19 00-0060	EA	30" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,589.62	189.94
			<i>For Flange Frame, Add</i>	220.97	
			<i>For Clear Lacquer Finish, Add</i>	441.95	
			<i>For Baked Enamel Standard Colors, Add</i>	662.92	
			<i>For Anodized Finish, Add</i>	883.90	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,215.36	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0061	EA	30" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,777.75	200.90
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	237.60	
		For Clear Lacquer Finish, Add	475.19	
		For Baked Enamel Standard Colors, Add	712.79	
		For Anodized Finish, Add	950.38	
		For Kynar® Standard Colors Finish, Add	1,306.78	
08 91 19 00-0062	EA	36" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	727.96	62.10
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	60.38	
		For Clear Lacquer Finish, Add	120.75	
		For Baked Enamel Standard Colors, Add	181.13	
		For Anodized Finish, Add	241.51	
		For Kynar® Standard Colors Finish, Add	332.07	
08 91 19 00-0063	EA	36" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	955.15	80.36
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	79.44	
		For Clear Lacquer Finish, Add	158.89	
		For Baked Enamel Standard Colors, Add	238.33	
		For Anodized Finish, Add	317.77	
		For Kynar® Standard Colors Finish, Add	436.94	
08 91 19 00-0064	EA	36" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,104.17	91.32
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	92.15	
		For Clear Lacquer Finish, Add	184.31	
		For Baked Enamel Standard Colors, Add	276.46	
		For Anodized Finish, Add	368.62	
		For Kynar® Standard Colors Finish, Add	506.85	
08 91 19 00-0065	EA	36" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,281.31	102.27
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	107.68	
		For Clear Lacquer Finish, Add	215.35	
		For Baked Enamel Standard Colors, Add	323.03	
		For Anodized Finish, Add	430.70	
		For Kynar® Standard Colors Finish, Add	592.22	
08 91 19 00-0066	EA	36" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,479.72	111.04
		Note: Includes bird screen.		
		For Flange Frame, Add	125.76	
		For Clear Lacquer Finish, Add	251.53	
		For Baked Enamel Standard Colors, Add	377.29	
		For Anodized Finish, Add	503.06	
		For Kynar® Standard Colors Finish, Add	691.70	
08 91 19 00-0067	EA	36" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,634.39	120.53
		Note: Includes bird screen.		
		For Flange Frame, Add	139.33	
		For Clear Lacquer Finish, Add	278.66	
		For Baked Enamel Standard Colors, Add	417.99	
		For Anodized Finish, Add	557.32	
		For Kynar® Standard Colors Finish, Add	766.32	
08 91 19 00-0068	EA	36" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,767.55	127.84
		Note: Includes bird screen.		
		For Flange Frame, Add	151.19	
		For Clear Lacquer Finish, Add	302.37	
		For Baked Enamel Standard Colors, Add	453.56	
		For Anodized Finish, Add	604.74	
		For Kynar® Standard Colors Finish, Add	831.52	
08 91 19 00-0069	EA	36" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,945.91	138.80
		Note: Includes bird screen.		
		For Flange Frame, Add	166.83	
		For Clear Lacquer Finish, Add	333.66	
		For Baked Enamel Standard Colors, Add	500.49	
		For Anodized Finish, Add	667.32	
		For Kynar® Standard Colors Finish, Add	917.57	
08 91 19 00-0070	EA	36" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,081.48	149.76
		Note: Includes bird screen.		
		For Flange Frame, Add	178.20	
		For Clear Lacquer Finish, Add	356.39	
		For Baked Enamel Standard Colors, Add	534.59	
		For Anodized Finish, Add	712.79	
		For Kynar® Standard Colors Finish, Add	980.08	
08 91 19 00-0071	EA	36" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,295.28	160.72
		Note: Includes bird screen.		
		For Flange Frame, Add	197.39	
		For Clear Lacquer Finish, Add	394.77	
		For Baked Enamel Standard Colors, Add	592.16	
		For Anodized Finish, Add	789.54	
		For Kynar® Standard Colors Finish, Add	1,085.62	
08 91 19 00-0072	EA	36" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,436.98	171.67
		Note: Includes bird screen.		
		For Flange Frame, Add	209.36	
		For Clear Lacquer Finish, Add	418.73	
		For Baked Enamel Standard Colors, Add	628.09	
		For Anodized Finish, Add	837.45	
		For Kynar® Standard Colors Finish, Add	1,151.50	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0073	EA	36" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,589.70 223.17 446.35 669.52 892.70 1,227.46	178.98
08 91	19 00-0074	EA	36" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,748.53 237.60 475.19 712.79 950.38 1,306.78	186.29
08 91	19 00-0075	EA	36" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,885.33 249.08 498.17 747.25 996.34 1,369.96	197.24
08 91	19 00-0076	EA	36" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,097.91 268.15 536.30 804.45 1,072.60 1,474.83	208.20
08 91	19 00-0077	EA	42" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	846.45 70.77 141.53 212.30 283.06 389.21	69.40
08 91	19 00-0078	EA	42" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,038.20 86.29 172.57 258.86 345.15 474.58	87.67
08 91	19 00-0079	EA	42" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,203.11 100.59 201.17 301.76 402.35 553.23	98.62
08 91	19 00-0080	EA	42" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,407.12 118.07 236.13 354.20 472.26 649.36	113.23
08 91	19 00-0081	EA	42" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,622.17 138.11 276.22 414.33 552.44 759.60	120.53
08 91	19 00-0082	EA	42" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,794.44 153.88 307.75 461.63 615.50 846.31	127.84
08 91	19 00-0083	EA	42" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,943.49 167.32 334.64 501.96 669.28 920.25	135.15
08 91	19 00-0084	EA	42" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,121.84 182.96 365.93 548.89 731.85 1,006.30	146.10

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0085	EA	42" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,274.53	157.06
			<i>For Flange Frame, Add</i>	196.04	
			<i>For Clear Lacquer Finish, Add</i>	392.08	
			<i>For Baked Enamel Standard Colors, Add</i>	588.12	
			<i>For Anodized Finish, Add</i>	784.16	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,078.23	
08 91	19 00-0086	EA	42" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,511.56	168.02
			<i>For Flange Frame, Add</i>	217.55	
			<i>For Clear Lacquer Finish, Add</i>	435.10	
			<i>For Baked Enamel Standard Colors, Add</i>	652.66	
			<i>For Anodized Finish, Add</i>	870.21	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,196.54	
08 91	19 00-0087	EA	42" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,664.25	178.98
			<i>For Flange Frame, Add</i>	230.63	
			<i>For Clear Lacquer Finish, Add</i>	461.26	
			<i>For Baked Enamel Standard Colors, Add</i>	691.89	
			<i>For Anodized Finish, Add</i>	922.52	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,268.46	
08 91	19 00-0088	EA	42" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,836.53	186.29
			<i>For Flange Frame, Add</i>	246.40	
			<i>For Clear Lacquer Finish, Add</i>	492.79	
			<i>For Baked Enamel Standard Colors, Add</i>	739.19	
			<i>For Anodized Finish, Add</i>	985.58	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,355.18	
08 91	19 00-0089	EA	42" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,010.02	193.59
			<i>For Flange Frame, Add</i>	262.28	
			<i>For Clear Lacquer Finish, Add</i>	524.57	
			<i>For Baked Enamel Standard Colors, Add</i>	786.85	
			<i>For Anodized Finish, Add</i>	1,049.14	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,442.56	
08 91	19 00-0090	EA	42" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,171.27	204.55
			<i>For Flange Frame, Add</i>	276.22	
			<i>For Clear Lacquer Finish, Add</i>	552.43	
			<i>For Baked Enamel Standard Colors, Add</i>	828.65	
			<i>For Anodized Finish, Add</i>	1,104.87	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,519.19	
08 91	19 00-0091	EA	42" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,399.74	215.51
			<i>For Flange Frame, Add</i>	296.87	
			<i>For Clear Lacquer Finish, Add</i>	593.74	
			<i>For Baked Enamel Standard Colors, Add</i>	890.62	
			<i>For Anodized Finish, Add</i>	1,187.49	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,632.80	
08 91	19 00-0092	EA	48" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	925.84	76.71
			<i>For Flange Frame, Add</i>	77.24	
			<i>For Clear Lacquer Finish, Add</i>	154.49	
			<i>For Baked Enamel Standard Colors, Add</i>	231.73	
			<i>For Anodized Finish, Add</i>	308.97	
			<i>For Kynar® Standard Colors Finish, Add</i>	424.84	
08 91	19 00-0093	EA	48" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,134.70	94.96
			<i>For Flange Frame, Add</i>	94.48	
			<i>For Clear Lacquer Finish, Add</i>	188.95	
			<i>For Baked Enamel Standard Colors, Add</i>	283.43	
			<i>For Anodized Finish, Add</i>	377.90	
			<i>For Kynar® Standard Colors Finish, Add</i>	519.62	
08 91	19 00-0094	EA	48" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,328.92	109.58
			<i>For Flange Frame, Add</i>	110.98	
			<i>For Clear Lacquer Finish, Add</i>	221.95	
			<i>For Baked Enamel Standard Colors, Add</i>	332.93	
			<i>For Anodized Finish, Add</i>	443.90	
			<i>For Kynar® Standard Colors Finish, Add</i>	610.37	
08 91	19 00-0095	EA	48" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,529.28	120.53
			<i>For Flange Frame, Add</i>	128.82	
			<i>For Clear Lacquer Finish, Add</i>	257.64	
			<i>For Baked Enamel Standard Colors, Add</i>	386.46	
			<i>For Anodized Finish, Add</i>	515.28	
			<i>For Kynar® Standard Colors Finish, Add</i>	708.51	
08 91	19 00-0096	EA	48" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,774.88	127.84
			<i>For Flange Frame, Add</i>	151.92	
			<i>For Clear Lacquer Finish, Add</i>	303.84	
			<i>For Baked Enamel Standard Colors, Add</i>	455.76	
			<i>For Anodized Finish, Add</i>	607.68	
			<i>For Kynar® Standard Colors Finish, Add</i>	835.55	



	Openings	08
	Louvers and Vents	08 90
	Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0097	EA	48" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,974.05 170.38 340.75 511.13 681.50 937.06	135.15
08 91	19 00-0098	EA	48" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,138.95 184.67 369.35 554.02 738.70 1,015.71	146.10
08 91	19 00-0099	EA	48" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,397.97 208.39 416.77 625.16 833.54 1,146.12	157.06
08 91	19 00-0100	EA	48" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,511.56 217.55 435.10 652.66 870.21 1,196.54	168.02
08 91	19 00-0101	EA	48" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,764.47 240.65 481.30 721.95 962.60 1,323.58	178.98
08 91	19 00-0102	EA	48" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,940.39 256.05 512.10 768.15 1,024.20 1,408.28	189.94
08 91	19 00-0103	EA	48" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,132.22 273.77 547.55 821.32 1,095.09 1,505.75	197.24
08 91	19 00-0104	EA	48" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,324.05 291.50 582.99 874.49 1,165.98 1,603.22	204.55
08 91	19 00-0105	EA	48" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,484.10 306.04 612.08 918.12 1,224.16 1,683.21	211.86
08 91	19 00-0106	EA	48" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,746.79 330.12 660.23 990.35 1,320.46 1,815.64	222.81
08 91	19 00-0107	EA	54" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,025.98 85.07 170.13 255.20 340.26 467.86	87.67
08 91	19 00-0108	EA	54" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,259.29 104.74 209.49 314.23 418.97 576.09	105.92

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0109	EA	54" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,474.25 122.59 245.17 367.76 490.35 674.23	124.19
08 91	19 00-0110	EA	54" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,688.09 142.51 285.02 427.53 570.04 783.80	131.49
08 91	19 00-0111	EA	54" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,981.36 170.38 340.75 511.13 681.50 937.06	138.80
08 91	19 00-0112	EA	54" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,185.40 189.32 378.64 567.96 757.28 1,041.25	146.10
08 91	19 00-0113	EA	54" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,378.42 206.43 412.86 619.29 825.72 1,135.37	157.06
08 91	19 00-0114	EA	54" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,660.66 232.46 464.92 697.39 929.85 1,278.54	168.02
08 91	19 00-0115	EA	54" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,859.80 250.18 500.37 750.55 1,000.74 1,376.01	178.98
08 91	19 00-0116	EA	54" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,155.50 277.56 555.12 832.69 1,110.25 1,526.59	189.94
08 91	19 00-0117	EA	54" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,346.10 295.16 590.32 885.48 1,180.64 1,623.39	197.24
08 91	19 00-0118	EA	54" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,563.60 315.45 630.90 946.35 1,261.80 1,734.98	204.55
08 91	19 00-0119	EA	54" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,772.54 334.88 669.77 1,004.65 1,339.53 1,841.86	211.86
08 91	19 00-0120	EA	54" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,946.03 350.77 701.54 1,052.31 1,403.08 1,929.24	219.16



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0121	EA	54" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,251.50 379.13 758.25 1,137.38 1,516.50 2,085.19	230.12
08 91	19 00-0122	EA	60" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,102.92 91.30 182.60 273.89 365.19 502.14	94.96
08 91	19 00-0123	EA	60" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,360.64 112.69 225.37 338.06 450.75 619.78	116.88
08 91	19 00-0124	EA	60" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,580.53 131.75 263.51 395.26 527.01 724.64	131.49
08 91	19 00-0125	EA	60" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,827.36 154.98 309.95 464.93 619.90 852.36	138.80
08 91	19 00-0126	EA	60" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,134.03 183.45 366.90 550.36 733.81 1,008.99	149.76
08 91	19 00-0127	EA	60" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,362.53 204.84 409.68 614.52 819.36 1,126.63	157.06
08 91	19 00-0128	EA	60" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,564.11 222.81 445.61 668.42 891.23 1,225.44	168.02
08 91	19 00-0129	EA	60" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,865.91 250.80 501.59 752.39 1,003.18 1,379.37	178.98
08 91	19 00-0130	EA	60" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,079.72 269.98 539.97 809.95 1,079.94 1,484.91	189.94
08 91	19 00-0131	EA	60" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,399.85 299.81 599.61 899.42 1,199.22 1,648.93	200.90
08 91	19 00-0132	EA	60" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,602.68 318.63 637.26 955.88 1,274.51 1,752.45	208.20

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0133	EA	60" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,833.62	215.51
			<i>For Flange Frame, Add</i>	340.26	
			<i>For Clear Lacquer Finish, Add</i>	680.52	
			<i>For Baked Enamel Standard Colors, Add</i>	1,020.78	
			<i>For Anodized Finish, Add</i>	1,361.04	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,871.43	
08 91	19 00-0134	EA	60" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,059.68	222.81
			<i>For Flange Frame, Add</i>	361.41	
			<i>For Clear Lacquer Finish, Add</i>	722.81	
			<i>For Baked Enamel Standard Colors, Add</i>	1,084.22	
			<i>For Anodized Finish, Add</i>	1,445.62	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,987.73	
08 91	19 00-0135	EA	60" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,251.50	230.12
			<i>For Flange Frame, Add</i>	379.13	
			<i>For Clear Lacquer Finish, Add</i>	758.25	
			<i>For Baked Enamel Standard Colors, Add</i>	1,137.38	
			<i>For Anodized Finish, Add</i>	1,516.50	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,085.19	
08 91	19 00-0136	EA	60" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,570.43	237.43
			<i>For Flange Frame, Add</i>	409.56	
			<i>For Clear Lacquer Finish, Add</i>	819.12	
			<i>For Baked Enamel Standard Colors, Add</i>	1,228.68	
			<i>For Anodized Finish, Add</i>	1,638.24	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,252.57	
08 91	19 00-0137	EA	66" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,270.31	102.27
			<i>For Flange Frame, Add</i>	106.58	
			<i>For Clear Lacquer Finish, Add</i>	213.15	
			<i>For Baked Enamel Standard Colors, Add</i>	319.73	
			<i>For Anodized Finish, Add</i>	426.30	
			<i>For Kynar® Standard Colors Finish, Add</i>	586.17	
08 91	19 00-0138	EA	66" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,570.80	124.19
			<i>For Flange Frame, Add</i>	132.24	
			<i>For Clear Lacquer Finish, Add</i>	264.48	
			<i>For Baked Enamel Standard Colors, Add</i>	396.73	
			<i>For Anodized Finish, Add</i>	528.97	
			<i>For Kynar® Standard Colors Finish, Add</i>	727.33	
08 91	19 00-0139	EA	66" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,830.96	146.10
			<i>For Flange Frame, Add</i>	153.88	
			<i>For Clear Lacquer Finish, Add</i>	307.75	
			<i>For Baked Enamel Standard Colors, Add</i>	461.63	
			<i>For Anodized Finish, Add</i>	615.50	
			<i>For Kynar® Standard Colors Finish, Add</i>	846.31	
08 91	19 00-0140	EA	66" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,099.79	153.41
			<i>For Flange Frame, Add</i>	179.30	
			<i>For Clear Lacquer Finish, Add</i>	358.59	
			<i>For Baked Enamel Standard Colors, Add</i>	537.89	
			<i>For Anodized Finish, Add</i>	717.19	
			<i>For Kynar® Standard Colors Finish, Add</i>	986.13	
08 91	19 00-0141	EA	66" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,456.61	160.72
			<i>For Flange Frame, Add</i>	213.52	
			<i>For Clear Lacquer Finish, Add</i>	427.04	
			<i>For Baked Enamel Standard Colors, Add</i>	640.55	
			<i>For Anodized Finish, Add</i>	854.07	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,174.35	
08 91	19 00-0142	EA	66" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,705.89	168.02
			<i>For Flange Frame, Add</i>	236.99	
			<i>For Clear Lacquer Finish, Add</i>	473.97	
			<i>For Baked Enamel Standard Colors, Add</i>	710.96	
			<i>For Anodized Finish, Add</i>	947.94	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,303.42	
08 91	19 00-0143	EA	66" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,946.58	178.98
			<i>For Flange Frame, Add</i>	258.86	
			<i>For Clear Lacquer Finish, Add</i>	517.72	
			<i>For Baked Enamel Standard Colors, Add</i>	776.59	
			<i>For Anodized Finish, Add</i>	1,035.45	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,423.74	
08 91	19 00-0144	EA	66" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,228.83	189.94
			<i>For Flange Frame, Add</i>	284.90	
			<i>For Clear Lacquer Finish, Add</i>	569.79	
			<i>For Baked Enamel Standard Colors, Add</i>	854.69	
			<i>For Anodized Finish, Add</i>	1,139.58	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,566.92	



	Openings	08
	Louvers and Vents	08 90
	Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0145	EA	66" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,468.29 306.65 613.30 919.95 1,226.60 1,686.58	200.90
08 91	19 00-0146	EA	66" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,836.07 340.51 681.01 1,021.52 1,362.02 1,872.78	215.51
08 91	19 00-0147	EA	66" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,066.98 361.41 722.81 1,084.22 1,445.62 1,987.73	226.47
08 91	19 00-0148	EA	66" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,311.35 384.38 768.76 1,153.15 1,537.53 2,114.10	233.77
08 91	19 00-0149	EA	66" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,560.63 407.85 815.70 1,223.54 1,631.39 2,243.16	241.08
08 91	19 00-0150	EA	66" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,776.90 428.01 856.03 1,284.04 1,712.06 2,354.08	248.38
08 91	19 00-0151	EA	66" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	5,132.51 462.11 924.23 1,386.34 1,848.46 2,541.63	255.69
08 91	19 00-0152	EA	72" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,341.14 112.20 224.40 336.59 448.79 617.09	109.58
08 91	19 00-0153	EA	72" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,656.31 139.33 278.66 417.99 557.32 766.32	131.49
08 91	19 00-0154	EA	72" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,929.90 162.31 324.62 486.92 649.23 892.69	153.41
08 91	19 00-0155	EA	72" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,221.93 189.32 378.64 567.96 757.28 1,041.25	164.37
08 91	19 00-0156	EA	72" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,604.42 226.11 452.21 678.32 904.43 1,243.59	171.67

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0157 EA 72" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,867.14	178.98
Note: Includes bird screen.		
For Flange Frame, Add	250.92	
For Clear Lacquer Finish, Add	501.84	
For Baked Enamel Standard Colors, Add	752.75	
For Anodized Finish, Add	1,003.67	
For Kynar® Standard Colors Finish, Add	1,380.05	
08 91 19 00-0158 EA 72" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	3,123.72	189.94
Note: Includes bird screen.		
For Flange Frame, Add	274.38	
For Clear Lacquer Finish, Add	548.77	
For Baked Enamel Standard Colors, Add	823.15	
For Anodized Finish, Add	1,097.54	
For Kynar® Standard Colors Finish, Add	1,509.11	
08 91 19 00-0159 EA 72" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	3,414.55	197.24
Note: Includes bird screen.		
For Flange Frame, Add	302.01	
For Clear Lacquer Finish, Add	604.01	
For Baked Enamel Standard Colors, Add	906.02	
For Anodized Finish, Add	1,208.02	
For Kynar® Standard Colors Finish, Add	1,661.03	
08 91 19 00-0160 EA 72" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	3,665.01	208.20
Note: Includes bird screen.		
For Flange Frame, Add	324.86	
For Clear Lacquer Finish, Add	649.72	
For Baked Enamel Standard Colors, Add	974.58	
For Anodized Finish, Add	1,299.44	
For Kynar® Standard Colors Finish, Add	1,786.74	
08 91 19 00-0161 EA 72" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	4,066.98	226.47
Note: Includes bird screen.		
For Flange Frame, Add	361.41	
For Clear Lacquer Finish, Add	722.81	
For Baked Enamel Standard Colors, Add	1,084.22	
For Anodized Finish, Add	1,445.62	
For Kynar® Standard Colors Finish, Add	1,987.73	
08 91 19 00-0162 EA 72" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	4,321.10	237.43
Note: Includes bird screen.		
For Flange Frame, Add	384.63	
For Clear Lacquer Finish, Add	769.25	
For Baked Enamel Standard Colors, Add	1,153.88	
For Anodized Finish, Add	1,538.50	
For Kynar® Standard Colors Finish, Add	2,115.44	
08 91 19 00-0163 EA 72" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	4,572.82	244.73
Note: Includes bird screen.		
For Flange Frame, Add	408.34	
For Clear Lacquer Finish, Add	816.67	
For Baked Enamel Standard Colors, Add	1,225.01	
For Anodized Finish, Add	1,633.35	
For Kynar® Standard Colors Finish, Add	2,245.85	
08 91 19 00-0164 EA 72" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	4,828.20	252.04
Note: Includes bird screen.		
For Flange Frame, Add	432.41	
For Clear Lacquer Finish, Add	864.83	
For Baked Enamel Standard Colors, Add	1,297.24	
For Anodized Finish, Add	1,729.66	
For Kynar® Standard Colors Finish, Add	2,378.28	
08 91 19 00-0165 EA 72" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	5,067.70	259.34
Note: Includes bird screen.		
For Flange Frame, Add	454.90	
For Clear Lacquer Finish, Add	909.81	
For Baked Enamel Standard Colors, Add	1,364.71	
For Anodized Finish, Add	1,819.61	
For Kynar® Standard Colors Finish, Add	2,501.97	
08 91 19 00-0166 EA 72" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	5,446.53	266.65
Note: Includes bird screen.		
For Flange Frame, Add	491.32	
For Clear Lacquer Finish, Add	982.65	
For Baked Enamel Standard Colors, Add	1,473.97	
For Anodized Finish, Add	1,965.30	
For Kynar® Standard Colors Finish, Add	2,702.28	
08 91 19 00-0167 EA 78" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,426.64	116.88
Note: Includes bird screen.		
For Flange Frame, Add	119.29	
For Clear Lacquer Finish, Add	238.57	
For Baked Enamel Standard Colors, Add	357.86	
For Anodized Finish, Add	477.15	
For Kynar® Standard Colors Finish, Add	656.08	
08 91 19 00-0168 EA 78" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,750.36	138.80
Note: Includes bird screen.		
For Flange Frame, Add	147.28	
For Clear Lacquer Finish, Add	294.55	
For Baked Enamel Standard Colors, Add	441.83	
For Anodized Finish, Add	589.10	
For Kynar® Standard Colors Finish, Add	810.01	



	Openings	08
	Louvers and Vents	08 90
	Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0169	EA	78" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,030.07 170.86 341.73 512.59 683.46 939.75	160.72
08 91	19 00-0170	EA	78" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,341.65 199.83 399.66 599.49 799.32 1,099.07	171.67
08 91	19 00-0171	EA	78" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,746.14 238.82 477.64 716.45 955.27 1,313.50	178.98
08 91	19 00-0172	EA	78" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,019.86 264.73 529.46 794.19 1,058.92 1,456.01	186.29
08 91	19 00-0173	EA	78" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,294.77 290.03 580.06 870.08 1,160.11 1,595.15	197.24
08 91	19 00-0174	EA	78" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,602.71 319.36 638.72 958.08 1,277.44 1,756.49	204.55
08 91	19 00-0175	EA	78" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,871.51 344.05 688.10 1,032.15 1,376.20 1,892.27	215.51
08 91	19 00-0176	EA	78" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,299.13 383.16 766.32 1,149.48 1,532.64 2,107.38	233.77
08 91	19 00-0177	EA	78" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,565.49 407.60 815.21 1,222.81 1,630.42 2,241.82	244.73
08 91	19 00-0178	EA	78" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,844.07 433.27 866.54 1,299.81 1,733.08 2,382.99	255.69
08 91	19 00-0179	EA	78" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	5,099.45 457.35 914.69 1,372.04 1,829.39 2,515.41	263.00
08 91	19 00-0180	EA	78" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	5,354.84 481.43 962.85 1,444.28 1,925.70 2,647.84	270.30

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0181	EA	78" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	5,758.11	277.61
			<i>For Flange Frame, Add</i>	520.29	
			<i>For Clear Lacquer Finish, Add</i>	1,040.58	
			<i>For Baked Enamel Standard Colors, Add</i>	1,560.87	
			<i>For Anodized Finish, Add</i>	2,081.16	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,861.60	
08 91	19 00-0182	EA	84" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,496.25	124.19
			<i>For Flange Frame, Add</i>	124.79	
			<i>For Clear Lacquer Finish, Add</i>	249.57	
			<i>For Baked Enamel Standard Colors, Add</i>	374.36	
			<i>For Anodized Finish, Add</i>	499.15	
			<i>For Kynar® Standard Colors Finish, Add</i>	686.33	
08 91	19 00-0183	EA	84" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,833.40	146.10
			<i>For Flange Frame, Add</i>	154.12	
			<i>For Clear Lacquer Finish, Add</i>	308.24	
			<i>For Baked Enamel Standard Colors, Add</i>	462.36	
			<i>For Anodized Finish, Add</i>	616.48	
			<i>For Kynar® Standard Colors Finish, Add</i>	847.65	
08 91	19 00-0184	EA	84" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,142.45	168.02
			<i>For Flange Frame, Add</i>	180.64	
			<i>For Clear Lacquer Finish, Add</i>	361.28	
			<i>For Baked Enamel Standard Colors, Add</i>	541.92	
			<i>For Anodized Finish, Add</i>	722.56	
			<i>For Kynar® Standard Colors Finish, Add</i>	993.53	
08 91	19 00-0185	EA	84" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,463.81	178.98
			<i>For Flange Frame, Add</i>	210.59	
			<i>For Clear Lacquer Finish, Add</i>	421.17	
			<i>For Baked Enamel Standard Colors, Add</i>	631.76	
			<i>For Anodized Finish, Add</i>	842.34	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,158.22	
08 91	19 00-0186	EA	84" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,893.97	186.29
			<i>For Flange Frame, Add</i>	252.14	
			<i>For Clear Lacquer Finish, Add</i>	504.28	
			<i>For Baked Enamel Standard Colors, Add</i>	756.42	
			<i>For Anodized Finish, Add</i>	1,008.56	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,386.77	
08 91	19 00-0187	EA	84" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,183.57	193.59
			<i>For Flange Frame, Add</i>	279.64	
			<i>For Clear Lacquer Finish, Add</i>	559.28	
			<i>For Baked Enamel Standard Colors, Add</i>	838.92	
			<i>For Anodized Finish, Add</i>	1,118.56	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,538.01	
08 91	19 00-0188	EA	84" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,464.60	204.55
			<i>For Flange Frame, Add</i>	305.55	
			<i>For Clear Lacquer Finish, Add</i>	611.10	
			<i>For Baked Enamel Standard Colors, Add</i>	916.65	
			<i>For Anodized Finish, Add</i>	1,222.20	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,680.53	
08 91	19 00-0189	EA	84" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,796.98	211.86
			<i>For Flange Frame, Add</i>	337.33	
			<i>For Clear Lacquer Finish, Add</i>	674.65	
			<i>For Baked Enamel Standard Colors, Add</i>	1,011.98	
			<i>For Anodized Finish, Add</i>	1,349.31	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,855.30	
08 91	19 00-0190	EA	84" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,079.23	222.81
			<i>For Flange Frame, Add</i>	363.36	
			<i>For Clear Lacquer Finish, Add</i>	726.72	
			<i>For Baked Enamel Standard Colors, Add</i>	1,090.08	
			<i>For Anodized Finish, Add</i>	1,453.44	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,998.48	
08 91	19 00-0191	EA	84" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,532.52	241.08
			<i>For Flange Frame, Add</i>	405.04	
			<i>For Clear Lacquer Finish, Add</i>	810.07	
			<i>For Baked Enamel Standard Colors, Add</i>	1,215.11	
			<i>For Anodized Finish, Add</i>	1,620.15	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,227.70	
08 91	19 00-0192	EA	84" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,808.65	252.04
			<i>For Flange Frame, Add</i>	430.46	
			<i>For Clear Lacquer Finish, Add</i>	860.92	
			<i>For Baked Enamel Standard Colors, Add</i>	1,291.38	
			<i>For Anodized Finish, Add</i>	1,721.84	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,367.52	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0193	EA		84" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	5,111.67	263.00
				Note: Includes bird screen.		
				<i>For Flange Frame, Add</i>	458.57	
				<i>For Clear Lacquer Finish, Add</i>	917.14	
				<i>For Baked Enamel Standard Colors, Add</i>	1,375.71	
				<i>For Anodized Finish, Add</i>	1,834.28	
				<i>For Kynar® Standard Colors Finish, Add</i>	2,522.13	
08 91	19 00-0194	EA		84" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	5,435.50	270.30
				Note: Includes bird screen.		
				<i>For Flange Frame, Add</i>	489.49	
				<i>For Clear Lacquer Finish, Add</i>	978.98	
				<i>For Baked Enamel Standard Colors, Add</i>	1,468.47	
				<i>For Anodized Finish, Add</i>	1,957.96	
				<i>For Kynar® Standard Colors Finish, Add</i>	2,692.20	
08 91	19 00-0195	EA		84" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	5,727.55	277.61
				Note: Includes bird screen.		
				<i>For Flange Frame, Add</i>	517.24	
				<i>For Clear Lacquer Finish, Add</i>	1,034.47	
				<i>For Baked Enamel Standard Colors, Add</i>	1,551.71	
				<i>For Anodized Finish, Add</i>	2,068.94	
				<i>For Kynar® Standard Colors Finish, Add</i>	2,844.79	
08 91	19 00-0196	EA		84" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	6,161.37	284.90
				Note: Includes bird screen.		
				<i>For Flange Frame, Add</i>	559.16	
				<i>For Clear Lacquer Finish, Add</i>	1,118.31	
				<i>For Baked Enamel Standard Colors, Add</i>	1,677.47	
				<i>For Anodized Finish, Add</i>	2,236.62	
				<i>For Kynar® Standard Colors Finish, Add</i>	3,075.36	
08 91	19 00-0197	EA		90" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,587.83	135.15
				Note: Includes bird screen.		
				<i>For Flange Frame, Add</i>	131.75	
				<i>For Clear Lacquer Finish, Add</i>	263.51	
				<i>For Baked Enamel Standard Colors, Add</i>	395.26	
				<i>For Anodized Finish, Add</i>	527.01	
				<i>For Kynar® Standard Colors Finish, Add</i>	724.64	
08 91	19 00-0198	EA		90" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,929.87	157.06
				Note: Includes bird screen.		
				<i>For Flange Frame, Add</i>	161.58	
				<i>For Clear Lacquer Finish, Add</i>	323.15	
				<i>For Baked Enamel Standard Colors, Add</i>	484.73	
				<i>For Anodized Finish, Add</i>	646.30	
				<i>For Kynar® Standard Colors Finish, Add</i>	888.66	
08 91	19 00-0199	EA		90" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	2,251.15	178.98
				Note: Includes bird screen.		
				<i>For Flange Frame, Add</i>	189.32	
				<i>For Clear Lacquer Finish, Add</i>	378.64	
				<i>For Baked Enamel Standard Colors, Add</i>	567.96	
				<i>For Anodized Finish, Add</i>	757.28	
				<i>For Kynar® Standard Colors Finish, Add</i>	1,041.25	
08 91	19 00-0200	EA		90" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	2,582.28	189.94
				Note: Includes bird screen.		
				<i>For Flange Frame, Add</i>	220.24	
				<i>For Clear Lacquer Finish, Add</i>	440.48	
				<i>For Baked Enamel Standard Colors, Add</i>	660.72	
				<i>For Anodized Finish, Add</i>	880.96	
				<i>For Kynar® Standard Colors Finish, Add</i>	1,211.32	
08 91	19 00-0201	EA		90" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	3,041.78	197.24
				Note: Includes bird screen.		
				<i>For Flange Frame, Add</i>	264.73	
				<i>For Clear Lacquer Finish, Add</i>	529.46	
				<i>For Baked Enamel Standard Colors, Add</i>	794.19	
				<i>For Anodized Finish, Add</i>	1,058.92	
				<i>For Kynar® Standard Colors Finish, Add</i>	1,456.01	
08 91	19 00-0202	EA		90" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	3,341.16	204.55
				Note: Includes bird screen.		
				<i>For Flange Frame, Add</i>	293.21	
				<i>For Clear Lacquer Finish, Add</i>	586.41	
				<i>For Baked Enamel Standard Colors, Add</i>	879.62	
				<i>For Anodized Finish, Add</i>	1,172.82	
				<i>For Kynar® Standard Colors Finish, Add</i>	1,612.63	
08 91	19 00-0203	EA		90" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	3,627.10	211.86
				Note: Includes bird screen.		
				<i>For Flange Frame, Add</i>	320.34	
				<i>For Clear Lacquer Finish, Add</i>	640.68	
				<i>For Baked Enamel Standard Colors, Add</i>	961.02	
				<i>For Anodized Finish, Add</i>	1,281.36	
				<i>For Kynar® Standard Colors Finish, Add</i>	1,761.86	
08 91	19 00-0204	EA		90" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	3,977.81	219.16
				Note: Includes bird screen.		
				<i>For Flange Frame, Add</i>	353.95	
				<i>For Clear Lacquer Finish, Add</i>	707.90	
				<i>For Baked Enamel Standard Colors, Add</i>	1,061.85	
				<i>For Anodized Finish, Add</i>	1,415.80	
				<i>For Kynar® Standard Colors Finish, Add</i>	1,946.72	

08 Openings**08 90 Louvers and Vents****08 91 Louvers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0205	EA	90" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	4,274.73	230.12
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	381.45	
		<i>For Clear Lacquer Finish, Add</i>	762.90	
		<i>For Baked Enamel Standard Colors, Add</i>	1,144.35	
		<i>For Anodized Finish, Add</i>	1,525.80	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,097.97	
08 91 19 00-0206	EA	90" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	4,753.68	248.38
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	425.69	
		<i>For Clear Lacquer Finish, Add</i>	851.38	
		<i>For Baked Enamel Standard Colors, Add</i>	1,277.08	
		<i>For Anodized Finish, Add</i>	1,702.77	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,341.31	
08 91 19 00-0207	EA	90" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	5,042.03	259.34
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	452.34	
		<i>For Clear Lacquer Finish, Add</i>	904.67	
		<i>For Baked Enamel Standard Colors, Add</i>	1,357.01	
		<i>For Anodized Finish, Add</i>	1,809.34	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,487.85	
08 91 19 00-0208	EA	90" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	5,371.95	270.30
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	483.14	
		<i>For Clear Lacquer Finish, Add</i>	966.27	
		<i>For Baked Enamel Standard Colors, Add</i>	1,449.41	
		<i>For Anodized Finish, Add</i>	1,932.54	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,657.25	
08 91 19 00-0209	EA	90" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	5,715.33	277.61
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	516.01	
		<i>For Clear Lacquer Finish, Add</i>	1,032.03	
		<i>For Baked Enamel Standard Colors, Add</i>	1,548.04	
		<i>For Anodized Finish, Add</i>	2,064.05	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,838.07	
08 91 19 00-0210	EA	90" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	6,007.35	288.56
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	543.02	
		<i>For Clear Lacquer Finish, Add</i>	1,086.05	
		<i>For Baked Enamel Standard Colors, Add</i>	1,629.07	
		<i>For Anodized Finish, Add</i>	2,172.09	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,986.63	
08 91 19 00-0211	EA	90" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	6,466.85	295.86
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	587.51	
		<i>For Clear Lacquer Finish, Add</i>	1,175.02	
		<i>For Baked Enamel Standard Colors, Add</i>	1,762.54	
		<i>For Anodized Finish, Add</i>	2,350.05	
		<i>For Kynar® Standard Colors Finish, Add</i>	3,231.32	
08 91 19 00-0212	EA	96" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,667.19	146.10
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	137.50	
		<i>For Clear Lacquer Finish, Add</i>	275.00	
		<i>For Baked Enamel Standard Colors, Add</i>	412.49	
		<i>For Anodized Finish, Add</i>	549.99	
		<i>For Kynar® Standard Colors Finish, Add</i>	756.24	
08 91 19 00-0213	EA	96" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	2,021.45	168.02
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	168.54	
		<i>For Clear Lacquer Finish, Add</i>	337.08	
		<i>For Baked Enamel Standard Colors, Add</i>	505.62	
		<i>For Anodized Finish, Add</i>	674.16	
		<i>For Kynar® Standard Colors Finish, Add</i>	926.98	
08 91 19 00-0214	EA	96" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	2,358.62	189.94
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	197.87	
		<i>For Clear Lacquer Finish, Add</i>	395.75	
		<i>For Baked Enamel Standard Colors, Add</i>	593.62	
		<i>For Anodized Finish, Add</i>	791.50	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,088.31	
08 91 19 00-0215	EA	96" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	2,708.08	200.90
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	230.63	
		<i>For Clear Lacquer Finish, Add</i>	461.26	
		<i>For Baked Enamel Standard Colors, Add</i>	691.89	
		<i>For Anodized Finish, Add</i>	922.52	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,268.46	
08 91 19 00-0216	EA	96" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	3,182.24	208.20
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	276.58	
		<i>For Clear Lacquer Finish, Add</i>	553.17	
		<i>For Baked Enamel Standard Colors, Add</i>	829.75	
		<i>For Anodized Finish, Add</i>	1,106.34	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,521.21	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0217	EA	96" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,531.74 310.07 620.14 930.22 1,240.29 1,705.40	215.51
08 91	19 00-0218	EA	96" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,836.01 339.04 678.08 1,017.11 1,356.15 1,864.71	222.81
08 91	19 00-0219	EA	96" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,169.62 370.94 741.88 1,112.81 1,483.75 2,040.16	230.12
08 91	19 00-0220	EA	96" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,478.77 400.39 800.79 1,201.18 1,601.57 2,202.16	237.43
08 91	19 00-0221	EA	96" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,993.18 448.18 896.36 1,344.54 1,792.72 2,465.00	255.69
08 91	19 00-0222	EA	96" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,976.23 344.29 688.59 1,032.88 1,377.18 1,893.62	266.65
08 91	19 00-0223	EA	96" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	5,628.55 507.34 1,014.67 1,522.01 2,029.34 2,790.34	277.61
08 91	19 00-0224	EA	96" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	5,984.16 541.44 1,082.87 1,624.31 2,165.74 2,977.89	284.90
08 91	19 00-0225	EA	96" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	6,290.85 569.91 1,139.82 1,709.74 2,279.65 3,134.52	295.86
08 91	19 00-0226	EA	96" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	6,785.76 617.21 1,234.42 1,851.63 2,468.84 3,394.66	306.82
08 91	19 00-0227		Gable Louver Vents (08 91 19) Note: 1" deep, residential/light commercial grade louvers.		
08 91	19 00-0228		Aluminum Gable Louver Vents (08 91 19 00-0227) Note: Includes screen.		
08 91	19 00-0229		Rectangular Aluminum Gable Louver Vents (08 91 19 00-0228) Note: Includes screen.		
08 91	19 00-0230	EA	12" x 18" Rectangular Fixed Aluminum Gable Louver Vent.....	262.61	11.53
08 91	19 00-0231	EA	12" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....	287.26	13.24
08 91	19 00-0232	EA	18" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....	331.42	14.94
08 91	19 00-0233	EA	18" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....	363.51	15.88
08 91	19 00-0234	EA	24" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....	415.10	16.82
08 91	19 00-0235	EA	24" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....	464.24	20.18
08 91	19 00-0236	EA	30" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....	537.94	25.22



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0237	EA		30" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....	599.37	29.43
08 91 19 00-0238	EA		36" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....	685.35	35.32
08 91 19 00-0239	EA		42" x 48" Rectangular Fixed Aluminum Gable Louver Vent.....	857.31	47.08
08 91 19 00-0240			Square Aluminum Gable Louver Vents (08 91 19 00-0228)		
			Note: Includes screen.		
08 91 19 00-0241	EA		12" x 12" Square Fixed Aluminum Gable Louver Vent.....	240.36	10.61
08 91 19 00-0242	EA		18" x 18" Square Fixed Aluminum Gable Louver Vent.....	297.64	13.45
08 91 19 00-0243	EA		24" x 24" Square Fixed Aluminum Gable Louver Vent.....	373.26	15.87
08 91 19 00-0244	EA		30" x 30" Square Fixed Aluminum Gable Louver Vent.....	476.52	21.02
08 91 19 00-0245	EA		36" x 36" Square Fixed Aluminum Gable Louver Vent.....	611.64	30.27
08 91 19 00-0246	EA		42" x 42" Square Fixed Aluminum Gable Louver Vent.....	771.24	41.18
08 91 19 00-0247	EA		48" x 48" Square Fixed Aluminum Gable Louver Vent.....	955.58	53.81
08 91 19 00-0248			Round Aluminum Gable Louver Vents (08 91 19 00-0228)		
			Note: Includes screen.		
08 91 19 00-0249	EA		12" Diameter Round Fixed Aluminum Gable Louver Vent.....	240.36	10.61
08 91 19 00-0250	EA		18" Diameter Round Fixed Aluminum Gable Louver Vent.....	297.64	13.45
08 91 19 00-0251	EA		24" Diameter Round Fixed Aluminum Gable Louver Vent.....	373.26	15.87
08 91 19 00-0252	EA		30" Diameter Round Fixed Aluminum Gable Louver Vent.....	476.52	21.02
08 91 19 00-0253	EA		36" Diameter Round Fixed Aluminum Gable Louver Vent.....	611.64	30.27
08 91 19 00-0254	EA		42" Diameter Round Fixed Aluminum Gable Louver Vent.....	771.33	41.20
08 91 19 00-0255			Octagonal Aluminum Gable Louver Vents (08 91 19 00-0228)		
			Note: Includes screen.		
08 91 19 00-0256	EA		12" x 12" Octagonal Fixed Aluminum Gable Louver Vent.....	240.36	10.61
08 91 19 00-0257	EA		12" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....	262.61	11.53
08 91 19 00-0258	EA		12" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	287.26	13.24
08 91 19 00-0259	EA		18" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....	297.64	13.45
08 91 19 00-0260	EA		18" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	331.42	14.94
08 91 19 00-0261	EA		18" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	363.51	15.88
08 91 19 00-0262	EA		24" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	373.26	15.87
08 91 19 00-0263	EA		24" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	415.10	16.82
08 91 19 00-0264	EA		24" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	464.24	20.18
08 91 19 00-0265	EA		30" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	476.52	21.02
08 91 19 00-0266	EA		30" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	537.94	25.22
08 91 19 00-0267	EA		30" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	599.37	29.43
08 91 19 00-0268	EA		36" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	611.64	30.27
08 91 19 00-0269	EA		36" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	685.35	35.32
08 91 19 00-0270	EA		36" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	759.05	40.36
08 91 19 00-0271	EA		42" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	771.33	41.20
08 91 19 00-0272	EA		42" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	857.31	47.08
08 91 19 00-0273	EA		48" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	955.58	53.81
08 91 19 00-0274			Round Top Aluminum Gable Louver Vents (08 91 19 00-0228)		
			Note: Includes screen.		
08 91 19 00-0275	EA		12" x 12" Round Top Fixed Aluminum Gable Louver Vent.....	240.36	10.61
08 91 19 00-0276	EA		12" x 18" Round Top Fixed Aluminum Gable Louver Vent.....	262.61	11.53
08 91 19 00-0277	EA		12" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	287.26	13.24
08 91 19 00-0278	EA		18" x 18" Round Top Fixed Aluminum Gable Louver Vent.....	297.64	13.45
08 91 19 00-0279	EA		18" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	331.42	14.94
08 91 19 00-0280	EA		18" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	363.51	15.88
08 91 19 00-0281	EA		24" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	373.26	15.87
08 91 19 00-0282	EA		24" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	415.10	16.82
08 91 19 00-0283	EA		24" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	464.24	20.18
08 91 19 00-0284	EA		30" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	476.52	21.02
08 91 19 00-0285	EA		30" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	537.94	25.22
08 91 19 00-0286	EA		30" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	599.37	29.43
08 91 19 00-0287	EA		36" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	611.64	30.27
08 91 19 00-0288	EA		36" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	685.35	35.32
08 91 19 00-0289	EA		36" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	759.05	40.36
08 91 19 00-0290	EA		42" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	771.33	41.20
08 91 19 00-0291	EA		42" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	857.31	47.08
08 91 19 00-0292	EA		48" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	955.58	53.81
08 91 19 00-0293			Triangle Aluminum Gable Louver Vents (08 91 19 00-0228)		
			Note: Includes screen.		
08 91 19 00-0294	EA		36" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	501.95	13.24
08 91 19 00-0295	EA		36" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	568.43	15.87
08 91 19 00-0296	EA		48" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	610.28	16.82
08 91 19 00-0297	EA		48" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	698.45	20.18
08 91 19 00-0298	EA		48" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	779.04	21.02
08 91 19 00-0299	EA		60" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....	635.53	25.22
08 91 19 00-0300	EA		60" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	745.75	29.43
08 91 19 00-0301	EA		60" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	845.86	30.27
08 91 19 00-0302	EA		60" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	958.60	35.32



Openings	08	08
Louvers and Vents	08 90	
Louvers	08 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0303	EA	72" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....	759.05	40.36
08 91	19 00-0304	EA	72" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	878.68	41.20
08 91	19 00-0305	EA	72" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	1,013.45	47.08
08 91	19 00-0306	EA	72" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	1,150.76	53.81
08 91	19 00-0307	EA	72" Base x 48" High Triangle Fixed Aluminum Gable Louver Vent.....	1,291.96	61.84

08 91 19 00-0308 Vinyl Gable Louver Vents (08 91 19 00-0227)
 Note: Includes screen.

08 91	19 00-0309	EA	12" x 12" Square Fixed Vinyl Gable Louver Vent.....	76.94	10.61
08 91	19 00-0310	EA	12" x 18" Rectangular Fixed Vinyl Gable Louver Vent.....	93.23	11.53
08 91	19 00-0311	EA	18" x 24" Rectangular Fixed Vinyl Gable Louver Vent.....	127.34	14.94
08 91	19 00-0312	EA	24" x 30" Rectangular Fixed Vinyl Gable Louver Vent.....	175.11	16.82
08 91	19 00-0313	EA	18" Diameter Round Fixed Vinyl Gable Louver Vent.....	123.48	13.45
08 91	19 00-0314	EA	22" Diameter Round Fixed Vinyl Gable Louver Vent.....	142.64	15.87
08 91	19 00-0315	EA	30" Diameter Round Fixed Vinyl Gable Louver Vent.....	201.37	21.02
08 91	19 00-0316	EA	36" Diameter Round Fixed Vinyl Gable Louver Vent.....	294.39	30.27
08 91	19 00-0317	EA	18" x 18" Octagonal Fixed Vinyl Gable Louver Vent.....	123.48	13.45
08 91	19 00-0318	EA	22" x 22" Octagonal Fixed Vinyl Gable Louver Vent.....	139.84	14.94
08 91	19 00-0319	EA	27" x 27" Octagonal Fixed Vinyl Gable Louver Vent.....	180.87	16.82
08 91	19 00-0320	EA	32" x 32" Octagonal Fixed Vinyl Gable Louver Vent.....	256.61	25.22
08 91	19 00-0321	EA	40" x 40" Octagonal Fixed Vinyl Gable Louver Vent.....	613.48	40.36
08 91	19 00-0322	EA	14" x 22" Round Top Fixed Vinyl Gable Louver Vent.....	121.02	13.24
08 91	19 00-0323	EA	22" x 32" Round Top Fixed Vinyl Gable Louver Vent.....	168.94	16.82
08 91	19 00-0324	EA	34" x 22" Half Round Fixed Vinyl Gable Louver Vent.....	174.54	20.18
08 91	19 00-0325	EA	52" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent.....	404.41	25.22
08 91	19 00-0326	EA	56" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent.....	404.41	25.22
08 91	19 00-0327	EA	56" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent.....	404.41	25.22
08 91	19 00-0328	EA	62" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent.....	404.41	25.22
08 91	19 00-0329	EA	62-1/2" Base x 21" High Triangle Fixed Vinyl Gable Louver Vent.....	404.41	25.22
08 91	19 00-0330	EA	70-1/2" Base x 17" High Triangle Fixed Vinyl Gable Louver Vent.....	449.86	40.36
08 91	19 00-0331	EA	70-1/2" Base x 20-1/2" High Triangle Fixed Vinyl Gable Louver Vent.....	449.86	40.36
08 91	19 00-0332	EA	72-1/2" Base x 18" High Triangle Fixed Vinyl Gable Louver Vent.....	449.86	40.36
08 91	19 00-0333	EA	74" Base x 14-1/2" High Triangle Fixed Vinyl Gable Louver Vent.....	449.86	40.36

08 95 Vents (08 90)

08 95 13 Soffit Vents (08 95)

08 95 13 00-0001 Aluminum Soffit Vents (08 95 13)

08 95	13 00-0002	LF	2-1/2" Wide Aluminum Soffit Vent.....	9.16	3.36
08 95	13 00-0003	LF	3" Wide Aluminum Soffit Vent.....	16.57	6.58
08 95	13 00-0004	EA	4" x 16" Under Eave Vent, Mill Finish.....	26.75	8.77
08 95	13 00-0005	EA	8" x 16" Under Eave Vent, Mill Finish.....	27.67	8.77

08 95 13 00-0006 Vinyl Soffit Vents (08 95 13)

08 95	13 00-0007	LF	Up To 2" Vinyl Soffit Vent, Perforated, White.....	6.78	2.83
			<i>For Colors, Add</i>	<i>0.11</i>	
08 95	13 00-0008	LF	3" To 4" Vinyl Soffit Vent, Perforated, White.....	6.67	2.83
			<i>For Colors, Add</i>	<i>0.10</i>	

08 95 16 Wall Vents (08 95)

08 95 16 00-0001 Foundation Vents (08 95 16)

08 95	16 00-0002	SI	Galvanized Steel Foundation Vent.....	0.53	0.21
08 95	16 00-0003	SI	Aluminum Foundation Vent.....	0.98	0.21
08 95	16 00-0004	SI	Stainless Steel Foundation Vent.....	0.91	0.21
08 95	16 00-0005	SI	Plastic Foundation Vent.....	0.60	0.21

END OF SECTION 08

08	08	Openings
	08 90	Louvers and Vents
	08 95	Vents



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 01 Operation and Maintenance of Plumbing ⁽²²⁾

22 01 10 Operation and Maintenance of Plumbing Piping and Pumps ^(22 01)

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

22 01 10 61 Plumbing Piping Repairs ^(22 01 10)

22 01 10 61-0001 Pipe Repair Clamps ^(22 01 10 61)

22 01 10 61-0002	EA	1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	47.51
22 01 10 61-0003	EA	3/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	49.74
22 01 10 61-0004	EA	1" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	54.74
22 01 10 61-0005	EA	1-1/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	58.53
22 01 10 61-0006	EA	1-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	63.64
22 01 10 61-0007	EA	2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	81.39
22 01 10 61-0008	EA	2-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	104.76
22 01 10 61-0009	EA	3" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	122.56
22 01 10 61-0010	EA	4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	140.72
22 01 10 61-0011	EA	1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	74.25
22 01 10 61-0012	EA	3/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	78.58
22 01 10 61-0013	EA	1" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	87.00
22 01 10 61-0014	EA	1-1/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	95.63
22 01 10 61-0015	EA	1-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	105.63
22 01 10 61-0016	EA	2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	136.62
22 01 10 61-0017	EA	2-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	168.01
22 01 10 61-0018	EA	3" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	192.80
22 01 10 61-0019	EA	4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	219.19
22 01 10 61-0020	EA	1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	104.78
22 01 10 61-0021	EA	3/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	109.49
22 01 10 61-0022	EA	1" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	121.03
22 01 10 61-0023	EA	1-1/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	132.77
22 01 10 61-0024	EA	1-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	149.97
22 01 10 61-0025	EA	2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	184.23
22 01 10 61-0026	EA	2-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	219.57
22 01 10 61-0027	EA	3" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	265.31
22 01 10 61-0028	EA	4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	325.45
22 01 10 61-0029	EA	5" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	334.57
22 01 10 61-0030	EA	6" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	358.28

22 01 40 Operation and Maintenance of Plumbing Fixtures ^(22 01)

22 01 40 81 Plumbing Fixtures Replacement ^(22 01 40)

22 01 40 81-0001 Removal And Replacement Of Fixture And/Or Trim ^(22 01 40 81)

Note: Includes removal of existing item(s) and installation of new item(s).			
22 01 40 81-0002	EA	Removal And Replacement Of 3/8" To 1/2" Compression Shut-off Valve With 15" Polybutylene Supply Tube	74.43
22 01 40 81-0003	EA	Removal And Replacement Of 3/8" Compression x 1/2" FIP, Braided Stainless Steel, Supply Lines To Sink/Lavatory	22.82
22 01 40 81-0004	EA	Removal And Replacement Of Chrome Supply Lines To Sink/Lavatory, Pair	35.66

22 Plumbing
22 01 Operation and Maintenance of Plumbing
22 01 40 Operation and Maintenance of Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 01 40 81-0005 EA Removal And Replacement Of Single Bowl Sink/Lavatory Drain Line.....	50.38	
22 01 40 81-0006 EA Removal And Replacement Of Double Bowl Sink/Lavatory Drain Line.....	77.83	
22 01 40 81-0007 EA Removal And Replacement Of Shower Head, Polished Chrome.....	47.10	
22 01 40 81-0008 EA Removal And Replacement Of Shower Arm.....	45.30	
22 01 40 81-0009 EA Removal And Replacement Of Shower Head.....	50.45	
22 01 40 81-0010 EA Removal And Replacement Of Shower Knob.....	42.72	
22 01 40 81-0011 EA Removal And Replacement Of Shower and Tub Control Trim.....	130.54	
Note: Excludes balancing valve.		
22 01 40 81-0012 EA Removal And Replacement Of Sink Basket Strainer.....	33.70	
22 01 40 81-0013 EA Removal And Replacement Of 1-1/2" Sink Drain Without Stopper.....	18.88	
22 01 40 81-0014 EA Removal And Replacement Of 4-1/2" Sink Drain Without Stopper.....	19.74	
22 01 40 81-0015 EA Removal And Replacement Of 1-1/2" Sink Drain With Stopper.....	18.88	
22 01 40 81-0016 EA Removal And Replacement Of 1" Sink Rubber Stopper.....	11.22	
22 01 40 81-0017 EA Removal And Replacement Of Sink Tailpiece Extension, 1-1/2" x 8".....	33.05	
22 01 40 81-0018 EA Removal And Replacement Of Sink Trap, Adjustable, 1-1/2".....	52.72	
22 01 40 81-0019 EA Removal And Replacement Of Lavatory Pop-Up Rod.....	32.19	
22 01 40 81-0020 EA Removal And Replacement Of Lavatory Pop-up Drain Stopper.....	38.09	
22 01 40 81-0021 EA Removal And Replacement Of Faucet Handle.....	42.11	
22 01 40 81-0022 EA Removal And Replacement Of Faucet O-Ring.....	33.24	
22 01 40 81-0023 EA Removal And Replacement Of 1-1/2" Faucet Hole Cover.....	23.46	
22 01 40 81-0024 EA Removal And Replacement Of Toilet Ballcock.....	46.59	
22 01 40 81-0025 EA Removal And Replacement Of Toilet Bowl Ring, Flat Wax.....	8.96	
Note: Excludes removal of toilet.		
22 01 40 81-0026 EA Removal And Replacement Of Toilet Tank.....	179.31	
22 01 40 81-0027 EA Removal And Replacement Of 10" Toilet Bowl.....	232.50	
22 01 40 81-0028 EA Removal And Replacement Of 10", Low-Flush Watersaver, Toilet Bowl.....	247.44	
22 01 40 81-0029 EA Removal And Replacement Of 12" Toilet Bowl.....	261.86	
22 01 40 81-0030 EA Removal And Replacement Of 18", Elongated, Toilet Bowl.....	237.52	
22 01 40 81-0031 EA Removal And Replacement Of Toilet Closet Bolt, 5/16" x 3" With Nuts And Washers.....	30.05	
22 01 40 81-0032 EA Removal And Replacement Of Toilet Flapper With Chain.....	20.99	
22 01 40 81-0033 EA Removal And Replacement Of Toilet Flush Tank Lever.....	23.08	
22 01 40 81-0034 EA Removal And Replacement Of Elongated Toilet Seat With Lid.....	112.29	
22 01 40 81-0035 EA Removal And Replacement Of Elongated Toilet Seat Without Lid.....	104.35	
22 01 40 81-0036 EA Removal And Replacement Of Handicap Toilet Seat, Complete With Rails.....	165.21	
22 01 40 81-0037 EA Removal And Replacement Of Diverter Tub Spout.....	62.16	
22 01 40 81-0038 EA Removal And Replacement Of Tub Spout.....	46.46	
22 01 40 81-0039 EA Removal And Replacement Of 2" Tub Stopper.....	13.30	
22 01 40 81-0040 EA Removal And Replacement Of Tub Waste/Overflow.....	89.30	
22 01 40 81-0041 EA Removal And Replacement Of Tub Stem Bonnet Assembly.....	47.72	
22 01 40 81-0042 EA Removal And Replacement Of Faucet Bonnet.....	51.79	
22 01 40 81-0043 EA Removal And Replacement Of Faucet Diverter Stem.....	32.81	
22 01 40 81-0044 EA Removal And Replacement Of Faucet Diverter Stem And Bonnet.....	43.13	
22 01 40 81-0045 EA Removal And Replacement Of Faucet Spout.....	48.05	
22 01 40 81-0046 EA Removal And Replacement Of Faucet Stem.....	35.77	
22 01 40 81-0047 EA Removal And Replacement Of Plastic, Chrome Plated Drinking Fountain Bubbler Valve With Flexible Bubbler Guard.....	207.68	
22 01 40 81-0048 EA Removal And Replacement Of Brass, Chrome Plated Drinking Fountain Bubbler Valve.....	255.79	
22 01 40 81-0049 EA Removal And Replacement Of Stainless Steel (Lead Free) Drinking Fountain Pushbutton Bubbler Valve.....	163.44	

22 05 Common Work Results for Plumbing ⁽²²⁾

22 05 13 Common Motor Requirements for Plumbing Equipment ^(22 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

22 05 19 Meters and Gages for Plumbing Piping ^(22 05)

See CSI section 23 05 19 00-0000 for gages.

22 05 23 General-Duty Valves for Plumbing Piping ^(22 05)

See CSI section 23 05 23 00-0000 for additional valves.

22 05 23 00-0001 Gate Valves ^(22 05 23)

22 05 23 00-0002 Class 125 Brazed Or Soldered Bronze Gate Valves ^(22 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve 105)

22 05 23 00-0003 EA 1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve.....	93.91	14.72
For 150 LB Rating, Add	5.11	
For 200 LB Rating, Add	7.66	
For Work In Restricted Working Space, Add	12.86	
22 05 23 00-0004 EA 3/8" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve.....	96.16	14.72
For 150 LB Rating, Add	5.11	
For 200 LB Rating, Add	7.66	
For Work In Restricted Working Space, Add	13.53	
22 05 23 00-0005 EA 1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve.....	98.84	14.72
For 150 LB Rating, Add	5.14	
For 200 LB Rating, Add	7.70	
For Work In Restricted Working Space, Add	14.24	
22 05 23 00-0006 EA 3/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve.....	119.18	16.19
For 150 LB Rating, Add	5.52	
For 200 LB Rating, Add	8.28	
For Work In Restricted Working Space, Add	19.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0007 EA 1" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.08 6.76 10.14 23.24	18.40
22 05 23 00-0008 EA 1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	208.51 11.04 16.56 29.43	19.58
22 05 23 00-0009 EA 1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	233.19 12.00 18.00 33.96	22.66
22 05 23 00-0010 EA 2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	279.15 14.54 21.81 40.13	26.78
22 05 23 00-0011 EA 2-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Chain Operated Type, Add</i>	602.32 42.17 63.25 54.20 189.75	36.18
22 05 23 00-0012 EA 3" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	706.02 49.76 74.64 62.53	42.00
22 05 23 00-0013 Class 125 Brazed Or Soldered Bronze Lead Free Gate Valves (22 05 23 00-0001) Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve UP105, Nibco T113-LF)		
22 05 23 00-0014 EA 1/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.93 6.81 10.21 12.86	14.72
22 05 23 00-0015 EA 3/8" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.03 6.79 10.19 13.53	14.72
22 05 23 00-0016 EA 1/2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	130.28 8.28 12.42 14.24	14.72
22 05 23 00-0017 EA 3/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.62 8.66 13.00 19.19	16.19
22 05 23 00-0018 EA 1" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.95 10.35 15.52 23.24	18.40
22 05 23 00-0019 EA 1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	257.58 15.95 23.92 29.43	19.58
22 05 23 00-0020 EA 1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	294.91 18.17 27.26 33.96	22.66
22 05 23 00-0021 EA 2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	374.52 24.07 36.11 40.13	26.78
22 05 23 00-0022 200 PSI, Non Rising Stem, Crimped Bronze Gate Valves (22 05 23 00-0001) Note: 200 psi cold working pressure.		
22 05 23 00-0023 EA 1/2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i>	124.85 9.93	14.72
22 05 23 00-0024 EA 3/4" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i>	140.72 11.31	16.19
22 05 23 00-0025 EA 1" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i>	183.79 13.52	18.40
22 05 23 00-0026 EA 1-1/4" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i>	247.58 14.90	19.58
22 05 23 00-0027 EA 1-1/2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i>	286.40 16.56	22.66
22 05 23 00-0028 EA 2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i>	391.73 19.87	26.78
22 05 23 00-0029 Ball Valves (22 05 23)		
22 05 23 00-0030 Crimped Bronze, Ball Valves (22 05 23 00-0029)		
22 05 23 00-0031 Crimped Bronze, 250 PSI, Ball Valves (22 05 23 00-0030) Note: Nibco®		

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 23 General-Duty Valves for Plumbing Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0032 EA 1/2" Crimped Bronze, 250 PSI, Ball Valve	88.52	14.72
<i>For Work In Restricted Working Space, Add</i>	9.93	
22 05 23 00-0033 EA 3/4" Crimped Bronze, 250 PSI, Ball Valve	113.22	16.19
<i>For Work In Restricted Working Space, Add</i>	11.31	
22 05 23 00-0034 EA 1" Crimped Bronze, 250 PSI, Ball Valve	144.46	18.40
<i>For Work In Restricted Working Space, Add</i>	13.52	
22 05 23 00-0035 EA 1-1/4" Crimped Bronze, 250 PSI, Ball Valve	227.43	19.58
<i>For Work In Restricted Working Space, Add</i>	14.90	
22 05 23 00-0036 EA 1-1/2" Crimped Bronze, 250 PSI, Ball Valve	297.91	22.66
<i>For Work In Restricted Working Space, Add</i>	16.56	
22 05 23 00-0037 EA 2" Crimped Bronze, 250 PSI, Ball Valve	444.64	26.78
<i>For Work In Restricted Working Space, Add</i>	19.87	
22 05 23 00-0038 Crimped Bronze, 200 PSI, Full Port Ball Valves (22 05 23 00-0030)		
22 05 23 00-0039 EA 1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	58.00	14.72
<i>For Work In Restricted Working Space, Add</i>	9.93	
22 05 23 00-0040 EA 3/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	72.70	16.19
<i>For Work In Restricted Working Space, Add</i>	11.31	
22 05 23 00-0041 EA 1" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	88.14	18.40
<i>For Work In Restricted Working Space, Add</i>	13.52	
22 05 23 00-0042 EA 1-1/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	119.66	19.58
<i>For Work In Restricted Working Space, Add</i>	14.90	
22 05 23 00-0043 EA 1-1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	152.09	22.66
<i>For Work In Restricted Working Space, Add</i>	16.56	
22 05 23 00-0044 EA 2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	221.01	26.78
<i>For Work In Restricted Working Space, Add</i>	19.87	
22 05 23 00-0045 Crimped Bronze, 250 PSI, Full Port Ball Valves (22 05 23 00-0030)		
22 05 23 00-0046 EA 1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	65.41	14.72
<i>For Work In Restricted Working Space, Add</i>	9.93	
22 05 23 00-0047 EA 3/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	78.09	16.19
<i>For Work In Restricted Working Space, Add</i>	11.31	
22 05 23 00-0048 EA 1" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	96.75	18.40
<i>For Work In Restricted Working Space, Add</i>	13.52	
22 05 23 00-0049 EA 1-1/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	146.57	19.58
<i>For Work In Restricted Working Space, Add</i>	14.90	
22 05 23 00-0050 EA 1-1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	209.97	22.66
<i>For Work In Restricted Working Space, Add</i>	16.56	
22 05 23 00-0051 EA 2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	288.29	26.78
<i>For Work In Restricted Working Space, Add</i>	19.87	
22 05 23 00-0052 Crimped x Threaded Bronze, 250 PSI, Full Port Ball Valves (22 05 23 00-0030)		
22 05 23 00-0053 EA 1/2" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	63.39	14.72
<i>For Work In Restricted Working Space, Add</i>	9.93	
22 05 23 00-0054 EA 3/4" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	76.20	16.19
<i>For Work In Restricted Working Space, Add</i>	11.31	
22 05 23 00-0055 EA 1" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	92.44	18.40
<i>For Work In Restricted Working Space, Add</i>	13.52	
22 05 23 00-0056 Check Valves (22 05 23)		
22 05 23 00-0057 Crimped Bronze, 200 PSI, Y-Pattern, Swing Check Valves (22 05 23 00-0056)		
Note: Nibco®		
22 05 23 00-0058 EA 1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve	161.15	14.72
<i>For Work In Restricted Working Space, Add</i>	9.93	
22 05 23 00-0059 EA 3/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve	203.99	16.19
<i>For Work In Restricted Working Space, Add</i>	11.31	
22 05 23 00-0060 EA 1" Crimped Bronze, 200 PSI, Y-Pattern Check Valve	280.15	18.40
<i>For Work In Restricted Working Space, Add</i>	13.52	
22 05 23 00-0061 EA 1-1/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve	370.74	19.58
<i>For Work In Restricted Working Space, Add</i>	14.90	
22 05 23 00-0062 EA 1-1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve	441.25	22.66
<i>For Work In Restricted Working Space, Add</i>	16.56	
22 05 23 00-0063 EA 2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve	628.12	26.78
<i>For Work In Restricted Working Space, Add</i>	19.87	
22 05 23 00-0064 Crimped Bronze, 250 PSI, In-Line, Check Valves (22 05 23 00-0056)		
22 05 23 00-0065 EA 1/2" Crimped Bronze, 200 PSI, In-Line Check Valve	52.32	14.72
<i>For Work In Restricted Working Space, Add</i>	9.93	
22 05 23 00-0066 EA 3/4" Crimped Bronze, 200 PSI, In-Line Check Valve	62.30	16.19
<i>For Work In Restricted Working Space, Add</i>	11.31	
22 05 23 00-0067 EA 1" Crimped Bronze, 200 PSI, In-Line Check Valve	73.41	18.40
<i>For Work In Restricted Working Space, Add</i>	13.52	
22 05 23 00-0068 EA 1-1/4" Crimped Bronze, 200 PSI, In-Line Check Valve	90.65	19.58
<i>For Work In Restricted Working Space, Add</i>	14.90	
22 05 23 00-0069 EA 1-1/2" Crimped Bronze, 200 PSI, In-Line Check Valve	113.37	22.66
<i>For Work In Restricted Working Space, Add</i>	16.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0070 EA 2" Crimped Bronze, 200 PSI, In-Line Check Valve..... <i>For Work In Restricted Working Space, Add</i>	172.11 19.87	26.78
22 05 23 00-0071 Butterfly Valves (22 05 23)		
22 05 23 00-0072 Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve (22 05 23 00-0071)		
22 05 23 00-0073 EA 2-1/2" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,159.23 23.18	39.29
22 05 23 00-0074 EA 3" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,257.19 27.59	45.62
22 05 23 00-0075 EA 4" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,573.28 36.42	51.51
22 05 23 00-0076 Earthquake-Sensitive Gas Shut-Off Valve (22 05 23)		
22 05 23 00-0077 0.5 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0076)		
22 05 23 00-0078 EA 3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	178.34	16.19
22 05 23 00-0079 EA 1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	203.36	18.40
22 05 23 00-0080 7 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0076)		
22 05 23 00-0081 EA 1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	239.75	19.58
22 05 23 00-0082 EA 1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	317.79	22.66
22 05 23 00-0083 60 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0076)		
22 05 23 00-0084 EA 3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	216.11	16.19
22 05 23 00-0085 EA 1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	229.59	18.40
22 05 23 00-0086 EA 1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	260.74	19.58
22 05 23 00-0087 EA 1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	349.27	22.66
22 05 23 00-0088 EA 2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	763.30	26.78
22 05 23 00-0089 EA 2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	914.49	36.05
22 05 23 00-0090 EA 3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,178.95	42.00
22 05 23 00-0091 EA 4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,365.01	47.42
22 05 23 00-0092 60 PSI Flanged Earthquake Gas Shutoff Valves (22 05 23 00-0076)		
22 05 23 00-0093 EA 2" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,084.63	196.17
22 05 23 00-0094 EA 3" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,332.22	230.33
22 05 23 00-0095 EA 4" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,900.31	386.13
22 05 23 00-0096 EA 6" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	3,014.30	437.38
22 05 23 00-0097 EA 8" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	7,933.73	558.87
22 05 23 00-0098 Emergency Shut-Off Valve With Fusible Link (22 05 23)		
22 05 23 00-0099 Threaded, Fusible Brass Gate Valves (Morrison Bros. 939) (22 05 23 00-0098)		
Note: Brass globe/gate valve used to shut off product flow in the event of a fire. Fusible element in the handwheel automatically closes the valve when in contact with 165° F.		
22 05 23 00-0100 EA 1/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	80.30 12.86	23.70
22 05 23 00-0101 EA 3/8" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	82.61 13.55	25.01
22 05 23 00-0102 EA 1/2" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	124.54 14.24	23.70
22 05 23 00-0103 EA 3/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	235.09 19.19	31.93
22 05 23 00-0104 EA 1" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	562.57 23.24	38.70
22 05 23 00-0105 Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) (22 05 23 00-0098)		
Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.		
22 05 23 00-0106 EA 1-1/2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	448.28	22.66
22 05 23 00-0107 EA 2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	487.76	26.78
22 05 23 00-0108 EA 3" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	813.43	42.00
22 05 23 00-0109 Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) (22 05 23 00-0098)		
Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.		
22 05 23 00-0110 EA 2" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	679.27	196.17
22 05 23 00-0111 EA 3" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	1,066.07	230.33
22 05 23 00-0112 EA 4" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	2,374.96	386.13

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 29 Hangers and Supports for Plumbing Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 29 Hangers and Supports for Plumbing Piping and Equipment ^(22 05) See CSI section 23 05 29 00-0000 for hangers and supports.		
22 05 48 Vibration and Seismic Controls for Plumbing Piping and Equipment ^(22 05)		
22 05 48 13 Vibration Controls for Plumbing Piping and Equipment ^(22 05 48) See CSI section 23 05 48 13-0000 for vibration and seismic control.		
22 05 53 Identification for Plumbing Piping and Equipment ^(22 05) See CSI section 23 05 53 00-0000 for identification.		
22 05 76 Facility Drainage Piping Cleanouts ^(22 05)		
22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover ^(22 05 76) Note: For floor installation.		
22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover ^(22 05 76 00-0001)		
22 05 76 00-0003 EA 2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	708.13	78.29
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0004 EA 3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	770.72	98.16
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0005 EA 4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	960.80	118.61
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0006 EA 5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,363.62	132.73
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007 EA 6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,670.52	143.77
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0008 Cast Iron Heavy Duty Cleanout With Plug And Round Cover ^(22 05 76 00-0001)		
22 05 76 00-0009 EA 2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	811.25	78.29
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010 EA 3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	875.36	98.01
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0011 EA 4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,065.55	118.61
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0012 EA 5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,468.44	132.73
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0013 EA 6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,775.23	143.77
<i>For Vandal Proof, Add</i>	19.50	
<i>For Galvanized Ferrule, Add</i>	45.00	
<i>For Carpet Marker, Add</i>	16.00	
<i>For Carpet Flange, Add</i>	58.50	
<i>For Wide Flange, Add</i>	97.00	
<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0014 Wall Cover For Cleanout <small>(22 05 76)</small>		
Note: Cover and screw only.		
22 05 76 00-0015 Round Access Cover, Bronze Polished Top <small>(22 05 76 00-0014)</small>		
Note: Cover and screw only.		
22 05 76 00-0016 EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	111.25	24.57
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0017 EA 5-1/2" Diameter Wall Cover For Cleanout, Screwed.....	121.07	29.43
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed.....	152.98	33.11
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed.....	251.98	36.79
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed.....	373.92	40.47
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top <small>(22 05 76 00-0014)</small>		
Note: Cover and screw only.		
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover.....	547.74	24.57
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover.....	785.69	25.75
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover.....	839.43	27.23
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover.....	939.12	30.91
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top <small>(22 05 76 00-0014)</small>		
Note: Cover and screw only.		
22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel.....	557.49	24.57
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel.....	800.05	25.75
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel.....	854.78	27.23
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel.....	956.28	30.91
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated <small>(22 05 76 00-0014)</small>		
Note: Cover and screw only.		
22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated.....	541.02	24.57
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated.....	745.91	25.75
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated.....	1,054.86	27.23
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated.....	1,276.41	30.91
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0036 Cast Iron Cleanout Tee <small>(22 05 76)</small>		
22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover <small>(22 05 76 00-0036)</small>		
Note: Satin smooth secured cover.		

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0038	EA	2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover	522.69	78.29
		<i>For Vandal Proof Screws, Add</i>	18.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	45.00	
22 05 76 00-0039	EA	3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover	600.43	98.01
		<i>For Vandal Proof Screws, Add</i>	18.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	45.00	
22 05 76 00-0040	EA	4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover	780.50	118.61
		<i>For Vandal Proof Screws, Add</i>	18.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	45.00	
22 05 76 00-0041	EA	6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover	1,812.72	143.77
		<i>For Vandal Proof Screws, Add</i>	18.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	45.00	
22 05 76 00-0042		Cast Iron Cleanout Tee And Square Access Cover (22 05 76 00-0036)		
		Note: Satin smooth secured cover.		
22 05 76 00-0043	EA	2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	888.83	78.29
		<i>For Vandal Proof Screws, Add</i>	18.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	45.00	
22 05 76 00-0044	EA	3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	966.57	98.01
		<i>For Vandal Proof Screws, Add</i>	18.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	45.00	
22 05 76 00-0045	EA	4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	1,122.34	118.61
		<i>For Vandal Proof Screws, Add</i>	18.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	45.00	
22 05 76 00-0046	EA	6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	2,307.27	143.77
		<i>For Vandal Proof Screws, Add</i>	18.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	45.00	
22 05 76 00-0047		Cast Iron Cleanout Tee With Brass Plug (22 05 76 00-0036)		
22 05 76 00-0048	EA	2" Cleanout Tee With Cast Bronze Screw Plug	428.28	64.01
22 05 76 00-0049	EA	3" Cleanout Tee With Cast Bronze Screw Plug	478.23	69.90
22 05 76 00-0050	EA	4" Cleanout Tee With Cast Bronze Screw Plug	636.93	91.98
22 05 76 00-0051	EA	5" Cleanout Tee With Cast Bronze Screw Plug	946.73	108.90
22 05 76 00-0052	EA	6" Cleanout Tee With Cast Bronze Screw Plug	1,593.91	128.76
22 05 76 00-0053		Removable Cleanout Plug (22 05 76)		
22 05 76 00-0054		Threaded Bronze Plugs (22 05 76 00-0053)		
22 05 76 00-0055	EA	1-1/4", 1-1/2" Or 2" Threaded Bronze Plug	88.39	18.40
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0056	EA	2-1/2" Threaded Bronze Plug	105.38	20.02
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0057	EA	3" Threaded Bronze Plug	177.59	22.08
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0058	EA	3-1/2" Threaded Bronze Plug	199.00	25.75
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0059	EA	4" Threaded Bronze Plug	225.08	29.43
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0060	EA	5" Threaded Bronze Plug	314.33	33.11
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0061	EA	6" Threaded Bronze Plug	459.73	36.79
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0062	EA	8" Threaded Bronze Plug	771.11	40.47
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0063	EA	10" Threaded Bronze Plug	1,106.00	44.15
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0064		Threaded Brass Plugs (22 05 76 00-0053)		
22 05 76 00-0065	EA	1-1/2" Threaded Brass Plug, Raised Head	40.12	18.39
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0066	EA	2" Threaded Brass Plug, Raised Head	40.69	18.39
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0067	EA	2-1/2" Threaded Brass Plug, Raised Head	44.30	20.01
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0068	EA	3" Threaded Brass Plug, Raised Head	49.98	22.07
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0069	EA	3-1/2" Threaded Brass Plug, Raised Head	58.91	25.75
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0070	EA	4" Threaded Brass Plug, Raised Head	68.89	29.43
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0071	EA	4-1/2" Threaded Brass Plug, Raised Head	73.86	31.00
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0072	EA	5" Threaded Brass Plug, Raised Head	79.20	33.11
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0073	EA	6" Threaded Brass Plug, Raised Head	100.58	36.79
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0074	EA	1-1/2" Threaded Brass Plug, Countersunk Head	39.66	18.39
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0075	EA	2" Threaded Brass Plug, Countersunk Head	40.30	18.39
		<i>For Plug Tapped For Center Screw, Add</i>	9.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0076 EA 2-1/2" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	45.56 9.50	20.01
22 05 76 00-0077 EA 3" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	50.16 9.50	22.08
22 05 76 00-0078 EA 3-1/2" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	58.36 9.50	25.75
22 05 76 00-0079 EA 4" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	68.03 9.50	29.43
22 05 76 00-0080 EA 5" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	78.73 9.50	33.11
22 05 76 00-0081 EA 6" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	93.05 9.50	36.79

22 07 Plumbing Insulation ⁽²²⁾

22 07 16 Plumbing Equipment Insulation ^(22 07)

22 07 16 00-0001 Lavatory Insulation ^(22 07 16)		
22 07 16 00-0002 EA Neoprene Insulation Kit For Under Lavatories.....	327.63	30.89

22 07 19 Plumbing Piping Insulation ^(22 07)

22 07 19 00-0001 Fiberglass (Glass Fiber) Pipe Insulation ^(22 07 19)		
<p>Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.</p>		
22 07 19 00-0002 1/2" Thick Fiberglass Pipe Insulation ^(22 07 19 00-0001)		
22 07 19 00-0003 LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	9.71 0.16 2.45	3.02
22 07 19 00-0004 LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	9.88 0.18 2.45	3.02
22 07 19 00-0005 LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	10.49 0.19 2.60	3.16
22 07 19 00-0006 LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	10.84 0.21 2.65	3.30
22 07 19 00-0007 LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.13 0.22 2.70	3.30
22 07 19 00-0008 LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.77 0.24 2.84	3.43
22 07 19 00-0009 LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.28 0.28 2.90	3.57
22 07 19 00-0010 LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.91 0.31 2.99	3.71
22 07 19 00-0011 LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.55 0.40 3.23	3.98
22 07 19 00-0012 LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.15 0.48 3.77	4.67
22 07 19 00-0013 1" Thick Fiberglass Pipe Insulation ^(22 07 19 00-0001)		
22 07 19 00-0014 LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.11 0.19 3.38	4.11
22 07 19 00-0015 LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.38 0.22 3.38	4.11
22 07 19 00-0016 LF 1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.58 0.22 3.43	4.11
22 07 19 00-0017 LF 1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.03 0.25 3.48	4.25
22 07 19 00-0018 LF 1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.38 0.27 3.53	4.25
22 07 19 00-0019 LF 2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.93 0.30 3.63	4.40

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0020 LF 2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.72	4.67
For Single Layer Of Felt Finish, Add	0.33	
For Work In Restricted Working Space, Add	3.77	
22 07 19 00-0021 LF 3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.45	4.81
For Single Layer Of Felt Finish, Add	0.37	
For Work In Restricted Working Space, Add	3.87	
22 07 19 00-0022 LF 4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.45	5.08
For Single Layer Of Felt Finish, Add	0.48	
For Work In Restricted Working Space, Add	4.17	
22 07 19 00-0023 LF 6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.26	5.90
For Single Layer Of Felt Finish, Add	0.59	
For Work In Restricted Working Space, Add	4.70	
22 07 19 00-0024 LF 8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.95	6.59
For Single Layer Of Felt Finish, Add	0.84	
For Work In Restricted Working Space, Add	5.39	
22 07 19 00-0025 LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.55	7.83
For Single Layer Of Felt Finish, Add	0.98	
For Work In Restricted Working Space, Add	6.37	
22 07 19 00-0026 LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.08	8.92
For Single Layer Of Felt Finish, Add	1.11	
For Work In Restricted Working Space, Add	7.35	
22 07 19 00-0027 LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.64	9.75
For Single Layer Of Felt Finish, Add	1.29	
For Work In Restricted Working Space, Add	7.61	
22 07 19 00-0028 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0029 LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.48	4.24
For Single Layer Of Felt Finish, Add	0.39	
For Work In Restricted Working Space, Add	3.53	
22 07 19 00-0030 LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.64	4.24
For Single Layer Of Felt Finish, Add	0.41	
For Work In Restricted Working Space, Add	3.53	
22 07 19 00-0031 LF 1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.54	4.49
For Single Layer Of Felt Finish, Add	0.43	
For Work In Restricted Working Space, Add	3.74	
22 07 19 00-0032 LF 1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.08	4.59
For Single Layer Of Felt Finish, Add	0.46	
For Work In Restricted Working Space, Add	3.80	
22 07 19 00-0033 LF 1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.55	4.67
For Single Layer Of Felt Finish, Add	0.49	
For Work In Restricted Working Space, Add	3.87	
22 07 19 00-0034 LF 2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.69	4.92
For Single Layer Of Felt Finish, Add	0.53	
For Work In Restricted Working Space, Add	4.09	
22 07 19 00-0035 LF 2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.43	5.00
For Single Layer Of Felt Finish, Add	0.58	
For Work In Restricted Working Space, Add	4.16	
22 07 19 00-0036 LF 3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.06	5.18
For Single Layer Of Felt Finish, Add	0.60	
For Work In Restricted Working Space, Add	4.30	
22 07 19 00-0037 LF 4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.07	5.60
For Single Layer Of Felt Finish, Add	0.69	
For Work In Restricted Working Space, Add	4.65	
22 07 19 00-0038 LF 6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.58	6.54
For Single Layer Of Felt Finish, Add	0.79	
For Work In Restricted Working Space, Add	5.43	
22 07 19 00-0039 LF 8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.48	6.89
For Single Layer Of Felt Finish, Add	0.98	
For Work In Restricted Working Space, Add	5.73	
22 07 19 00-0040 LF 10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.69	8.25
For Single Layer Of Felt Finish, Add	1.24	
For Work In Restricted Working Space, Add	6.86	
22 07 19 00-0041 LF 12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.51	9.61
For Single Layer Of Felt Finish, Add	1.35	
For Work In Restricted Working Space, Add	7.99	
22 07 19 00-0042 LF 14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	44.09	10.53
For Single Layer Of Felt Finish, Add	1.57	
For Work In Restricted Working Space, Add	8.75	
22 07 19 00-0043 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0044 LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.75	4.67
For Single Layer Of Felt Finish, Add	0.61	
For Work In Restricted Working Space, Add	3.87	
22 07 19 00-0045 LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.95	4.67
For Single Layer Of Felt Finish, Add	0.63	
For Work In Restricted Working Space, Add	3.87	
22 07 19 00-0046 LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.54	4.81
For Single Layer Of Felt Finish, Add	0.68	
For Work In Restricted Working Space, Add	3.92	
22 07 19 00-0047 LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.06	4.81
For Single Layer Of Felt Finish, Add	0.72	
For Work In Restricted Working Space, Add	3.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0048 LF 1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.61	4.94
<i>For Single Layer Of Felt Finish, Add</i>	0.76	
<i>For Work In Restricted Working Space, Add</i>	4.02	
22 07 19 00-0049 LF 2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.38	5.08
<i>For Single Layer Of Felt Finish, Add</i>	0.79	
<i>For Work In Restricted Working Space, Add</i>	4.17	
22 07 19 00-0050 LF 2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.43	5.22
<i>For Single Layer Of Felt Finish, Add</i>	0.85	
<i>For Work In Restricted Working Space, Add</i>	4.31	
22 07 19 00-0051 LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.56	5.49
<i>For Single Layer Of Felt Finish, Add</i>	0.91	
<i>For Work In Restricted Working Space, Add</i>	4.46	
22 07 19 00-0052 LF 4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.63	5.76
<i>For Single Layer Of Felt Finish, Add</i>	1.04	
<i>For Work In Restricted Working Space, Add</i>	4.71	
22 07 19 00-0053 LF 6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.37	6.77
<i>For Single Layer Of Felt Finish, Add</i>	1.21	
<i>For Work In Restricted Working Space, Add</i>	5.65	
22 07 19 00-0054 LF 8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.15	7.15
<i>For Single Layer Of Felt Finish, Add</i>	1.50	
<i>For Work In Restricted Working Space, Add</i>	5.96	
22 07 19 00-0055 LF 10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.87	8.55
<i>For Single Layer Of Felt Finish, Add</i>	1.79	
<i>For Work In Restricted Working Space, Add</i>	7.13	
22 07 19 00-0056 LF 12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.24	10.26
<i>For Single Layer Of Felt Finish, Add</i>	1.97	
<i>For Work In Restricted Working Space, Add</i>	8.54	
22 07 19 00-0057 LF 14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.95	11.18
<i>For Single Layer Of Felt Finish, Add</i>	2.23	
<i>For Work In Restricted Working Space, Add</i>	11.92	
22 07 19 00-0058 LF 16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	63.89	13.12
<i>For Single Layer Of Felt Finish, Add</i>	2.54	
<i>For Work In Restricted Working Space, Add</i>	11.92	
22 07 19 00-0059 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.42	13.77
<i>For Single Layer Of Felt Finish, Add</i>	3.01	
<i>For Work In Restricted Working Space, Add</i>	12.51	
22 07 19 00-0060 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	79.89	15.73
<i>For Single Layer Of Felt Finish, Add</i>	3.38	
<i>For Work In Restricted Working Space, Add</i>	14.30	
22 07 19 00-0061 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	93.31	19.01
<i>For Single Layer Of Felt Finish, Add</i>	3.75	
<i>For Work In Restricted Working Space, Add</i>	17.28	
22 07 19 00-0062 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0063 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.02	5.49
<i>For Single Layer Of Felt Finish, Add</i>	0.85	
<i>For Work In Restricted Working Space, Add</i>	4.47	
22 07 19 00-0064 LF 3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.30	5.49
<i>For Single Layer Of Felt Finish, Add</i>	0.88	
<i>For Work In Restricted Working Space, Add</i>	4.47	
22 07 19 00-0065 LF 1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.14	5.49
<i>For Single Layer Of Felt Finish, Add</i>	0.95	
<i>For Work In Restricted Working Space, Add</i>	4.54	
22 07 19 00-0066 LF 1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.76	5.63
<i>For Single Layer Of Felt Finish, Add</i>	1.00	
<i>For Work In Restricted Working Space, Add</i>	4.58	
22 07 19 00-0067 LF 1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.40	5.63
<i>For Single Layer Of Felt Finish, Add</i>	1.05	
<i>For Work In Restricted Working Space, Add</i>	4.61	
22 07 19 00-0068 LF 2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.45	5.90
<i>For Single Layer Of Felt Finish, Add</i>	1.10	
<i>For Work In Restricted Working Space, Add</i>	4.80	
22 07 19 00-0069 LF 2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.87	6.04
<i>For Single Layer Of Felt Finish, Add</i>	1.19	
<i>For Work In Restricted Working Space, Add</i>	4.97	
22 07 19 00-0070 LF 3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.18	6.32
<i>For Single Layer Of Felt Finish, Add</i>	1.27	
<i>For Work In Restricted Working Space, Add</i>	5.14	
22 07 19 00-0071 LF 4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.08	6.59
<i>For Single Layer Of Felt Finish, Add</i>	1.47	
<i>For Work In Restricted Working Space, Add</i>	5.42	
22 07 19 00-0072 LF 6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.74	7.00
<i>For Single Layer Of Felt Finish, Add</i>	1.70	
<i>For Work In Restricted Working Space, Add</i>	6.16	
22 07 19 00-0073 LF 8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.11	8.38
<i>For Single Layer Of Felt Finish, Add</i>	2.65	
<i>For Work In Restricted Working Space, Add</i>	6.86	
22 07 19 00-0074 LF 10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	57.26	9.61
<i>For Single Layer Of Felt Finish, Add</i>	3.24	
<i>For Work In Restricted Working Space, Add</i>	7.91	
22 07 19 00-0075 LF 12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	65.68	11.94
<i>For Single Layer Of Felt Finish, Add</i>	3.45	
<i>For Work In Restricted Working Space, Add</i>	9.84	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0076 LF 14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	74.00	13.18
For Single Layer Of Felt Finish, Add	4.01	
For Work In Restricted Working Space, Add	10.74	
22 07 19 00-0077 LF 16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	87.84	16.75
For Single Layer Of Felt Finish, Add	4.42	
For Work In Restricted Working Space, Add	13.73	
22 07 19 00-0078 LF 18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	94.23	17.57
For Single Layer Of Felt Finish, Add	4.85	
For Work In Restricted Working Space, Add	14.42	
22 07 19 00-0079 LF 20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	107.02	20.05
For Single Layer Of Felt Finish, Add	5.47	
For Work In Restricted Working Space, Add	16.48	
22 07 19 00-0080 LF 24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	126.25	24.22
For Single Layer Of Felt Finish, Add	6.29	
For Work In Restricted Working Space, Add	19.91	
22 07 19 00-0081 3" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0082 LF 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.39	6.07
For Single Layer Of Felt Finish, Add	0.94	
For Work In Restricted Working Space, Add	4.94	
22 07 19 00-0083 LF 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.70	6.07
For Single Layer Of Felt Finish, Add	0.97	
For Work In Restricted Working Space, Add	4.94	
22 07 19 00-0084 LF 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.55	6.13
For Single Layer Of Felt Finish, Add	1.04	
For Work In Restricted Working Space, Add	5.00	
22 07 19 00-0085 LF 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.21	6.17
For Single Layer Of Felt Finish, Add	1.10	
For Work In Restricted Working Space, Add	5.03	
22 07 19 00-0086 LF 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.96	6.24
For Single Layer Of Felt Finish, Add	1.16	
For Work In Restricted Working Space, Add	5.08	
22 07 19 00-0087 LF 2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.05	6.47
For Single Layer Of Felt Finish, Add	1.21	
For Work In Restricted Working Space, Add	5.27	
22 07 19 00-0088 LF 2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.60	6.69
For Single Layer Of Felt Finish, Add	1.31	
For Work In Restricted Working Space, Add	5.45	
22 07 19 00-0089 LF 3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.04	6.93
For Single Layer Of Felt Finish, Add	1.39	
For Work In Restricted Working Space, Add	5.65	
22 07 19 00-0090 LF 4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.26	7.32
For Single Layer Of Felt Finish, Add	1.62	
For Work In Restricted Working Space, Add	5.96	
22 07 19 00-0091 LF 6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.37	8.31
For Single Layer Of Felt Finish, Add	1.87	
For Work In Restricted Working Space, Add	6.77	
22 07 19 00-0092 LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	52.85	9.25
For Single Layer Of Felt Finish, Add	2.91	
For Work In Restricted Working Space, Add	7.55	
22 07 19 00-0093 LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	62.91	10.68
For Single Layer Of Felt Finish, Add	3.56	
For Work In Restricted Working Space, Add	8.71	
22 07 19 00-0094 LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	72.17	13.28
For Single Layer Of Felt Finish, Add	3.79	
For Work In Restricted Working Space, Add	10.82	
22 07 19 00-0095 LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	81.31	14.49
For Single Layer Of Felt Finish, Add	4.40	
For Work In Restricted Working Space, Add	11.82	
22 07 19 00-0096 LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	96.52	18.52
For Single Layer Of Felt Finish, Add	4.85	
For Work In Restricted Working Space, Add	15.10	
22 07 19 00-0097 LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	103.53	19.45
For Single Layer Of Felt Finish, Add	5.32	
For Work In Restricted Working Space, Add	15.86	
22 07 19 00-0098 LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	117.61	22.24
For Single Layer Of Felt Finish, Add	6.00	
For Work In Restricted Working Space, Add	18.13	
22 07 19 00-0099 LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	138.72	26.85
For Single Layer Of Felt Finish, Add	6.90	
For Work In Restricted Working Space, Add	21.90	
22 07 19 00-0100 3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0101 LF 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.44	6.59
For Single Layer Of Felt Finish, Add	0.98	
For Work In Restricted Working Space, Add	5.42	
22 07 19 00-0102 LF 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.80	6.59
For Single Layer Of Felt Finish, Add	1.02	
For Work In Restricted Working Space, Add	5.42	
22 07 19 00-0103 LF 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.99	6.59
For Single Layer Of Felt Finish, Add	1.14	
For Work In Restricted Working Space, Add	5.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0104 LF 1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.71	6.73
<i>For Single Layer Of Felt Finish, Add</i>	1.20	
<i>For Work In Restricted Working Space, Add</i>	5.49	
22 07 19 00-0105 LF 1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.58	6.73
<i>For Single Layer Of Felt Finish, Add</i>	1.27	
<i>For Work In Restricted Working Space, Add</i>	5.56	
22 07 19 00-0106 LF 2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.69	7.00
<i>For Single Layer Of Felt Finish, Add</i>	1.32	
<i>For Work In Restricted Working Space, Add</i>	5.74	
22 07 19 00-0107 LF 2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.39	7.27
<i>For Single Layer Of Felt Finish, Add</i>	1.42	
<i>For Work In Restricted Working Space, Add</i>	5.95	
22 07 19 00-0108 LF 3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.88	7.55
<i>For Single Layer Of Felt Finish, Add</i>	1.51	
<i>For Work In Restricted Working Space, Add</i>	6.16	
22 07 19 00-0109 LF 4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.53	7.97
<i>For Single Layer Of Felt Finish, Add</i>	1.77	
<i>For Work In Restricted Working Space, Add</i>	6.51	
22 07 19 00-0110 LF 6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	44.08	9.06
<i>For Single Layer Of Felt Finish, Add</i>	2.04	
<i>For Work In Restricted Working Space, Add</i>	7.39	
22 07 19 00-0111 LF 8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	57.70	10.02
<i>For Single Layer Of Felt Finish, Add</i>	3.18	
<i>For Work In Restricted Working Space, Add</i>	8.23	
22 07 19 00-0112 LF 10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	68.71	11.54
<i>For Single Layer Of Felt Finish, Add</i>	3.89	
<i>For Work In Restricted Working Space, Add</i>	9.50	
22 07 19 00-0113 LF 12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	78.81	14.41
<i>For Single Layer Of Felt Finish, Add</i>	4.14	
<i>For Work In Restricted Working Space, Add</i>	11.81	
22 07 19 00-0114 LF 14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	88.82	15.79
<i>For Single Layer Of Felt Finish, Add</i>	4.81	
<i>For Work In Restricted Working Space, Add</i>	12.89	
22 07 19 00-0115 LF 16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	105.44	20.05
<i>For Single Layer Of Felt Finish, Add</i>	5.30	
<i>For Work In Restricted Working Space, Add</i>	16.48	
22 07 19 00-0116 LF 18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	113.07	21.14
<i>For Single Layer Of Felt Finish, Add</i>	5.82	
<i>For Work In Restricted Working Space, Add</i>	17.30	
22 07 19 00-0117 LF 20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	128.49	24.16
<i>For Single Layer Of Felt Finish, Add</i>	6.57	
<i>For Work In Restricted Working Space, Add</i>	19.79	
22 07 19 00-0118 LF 24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	151.51	29.11
<i>For Single Layer Of Felt Finish, Add</i>	7.55	
<i>For Work In Restricted Working Space, Add</i>	23.89	
22 07 19 00-0119 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0120 LF 1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.02	7.41
<i>For Single Layer Of Felt Finish, Add</i>	1.15	
<i>For Work In Restricted Working Space, Add</i>	6.02	
22 07 19 00-0121 LF 3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.41	7.41
<i>For Single Layer Of Felt Finish, Add</i>	1.19	
<i>For Work In Restricted Working Space, Add</i>	6.02	
22 07 19 00-0122 LF 1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.57	7.41
<i>For Single Layer Of Felt Finish, Add</i>	1.28	
<i>For Work In Restricted Working Space, Add</i>	6.12	
22 07 19 00-0123 LF 1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.49	7.55
<i>For Single Layer Of Felt Finish, Add</i>	1.35	
<i>For Work In Restricted Working Space, Add</i>	6.19	
22 07 19 00-0124 LF 1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.84	7.83
<i>For Single Layer Of Felt Finish, Add</i>	1.42	
<i>For Work In Restricted Working Space, Add</i>	6.39	
22 07 19 00-0125 LF 2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.08	8.10
<i>For Single Layer Of Felt Finish, Add</i>	1.48	
<i>For Work In Restricted Working Space, Add</i>	6.59	
22 07 19 00-0126 LF 2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.56	8.10
<i>For Single Layer Of Felt Finish, Add</i>	1.60	
<i>For Work In Restricted Working Space, Add</i>	6.69	
22 07 19 00-0127 LF 3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.37	8.51
<i>For Single Layer Of Felt Finish, Add</i>	1.71	
<i>For Work In Restricted Working Space, Add</i>	6.93	
22 07 19 00-0128 LF 4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.31	8.92
<i>For Single Layer Of Felt Finish, Add</i>	1.99	
<i>For Work In Restricted Working Space, Add</i>	7.32	
22 07 19 00-0129 LF 6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	49.57	10.16
<i>For Single Layer Of Felt Finish, Add</i>	2.30	
<i>For Work In Restricted Working Space, Add</i>	8.30	
22 07 19 00-0130 LF 8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	64.92	10.98
<i>For Single Layer Of Felt Finish, Add</i>	3.58	
<i>For Work In Restricted Working Space, Add</i>	9.26	
22 07 19 00-0131 LF 10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	77.32	13.05
<i>For Single Layer Of Felt Finish, Add</i>	4.38	
<i>For Work In Restricted Working Space, Add</i>	10.70	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0132	LF	12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	88.68	16.20
		<i>For Single Layer Of Felt Finish, Add</i>	4.66	
		<i>For Work In Restricted Working Space, Add</i>	13.28	
22 07 19 00-0133	LF	14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	99.95	17.71
		<i>For Single Layer Of Felt Finish, Add</i>	5.42	
		<i>For Work In Restricted Working Space, Add</i>	14.51	
22 07 19 00-0134	LF	16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	118.67	22.65
		<i>For Single Layer Of Felt Finish, Add</i>	5.97	
		<i>For Work In Restricted Working Space, Add</i>	18.55	
22 07 19 00-0135	LF	18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	127.14	23.75
		<i>For Single Layer Of Felt Finish, Add</i>	6.55	
		<i>For Work In Restricted Working Space, Add</i>	19.44	
22 07 19 00-0136	LF	20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	142.91	27.19
		<i>For Single Layer Of Felt Finish, Add</i>	7.22	
		<i>For Work In Restricted Working Space, Add</i>	22.25	
22 07 19 00-0137	LF	24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	170.48	32.81
		<i>For Single Layer Of Felt Finish, Add</i>	8.49	
		<i>For Work In Restricted Working Space, Add</i>	26.88	
22 07 19 00-0138	LF	26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	195.33	38.71
		<i>For Single Layer Of Felt Finish, Add</i>	9.42	
		<i>For Work In Restricted Working Space, Add</i>	31.68	
22 07 19 00-0139	LF	28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	221.30	45.58
		<i>For Single Layer Of Felt Finish, Add</i>	10.18	
		<i>For Work In Restricted Working Space, Add</i>	37.31	
22 07 19 00-0140	LF	30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	251.03	53.82
		<i>For Single Layer Of Felt Finish, Add</i>	10.89	
		<i>For Work In Restricted Working Space, Add</i>	44.19	
22 07 19 00-0141	LF	36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	305.15	68.42
		<i>For Single Layer Of Felt Finish, Add</i>	12.37	
		<i>For Work In Restricted Working Space, Add</i>	56.19	
22 07 19 00-0142	LF	42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	359.26	83.33
		<i>For Single Layer Of Felt Finish, Add</i>	13.86	
		<i>For Work In Restricted Working Space, Add</i>	68.19	
22 07 19 00-0143	LF	44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	387.59	91.57
		<i>For Single Layer Of Felt Finish, Add</i>	14.39	
		<i>For Work In Restricted Working Space, Add</i>	75.16	
22 07 19 00-0144	LF	46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	412.82	98.57
		<i>For Single Layer Of Felt Finish, Add</i>	14.97	
		<i>For Work In Restricted Working Space, Add</i>	81.08	
22 07 19 00-0145		4-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0146	LF	1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.02	7.97
		<i>For Single Layer Of Felt Finish, Add</i>	1.31	
		<i>For Work In Restricted Working Space, Add</i>	6.47	
22 07 19 00-0147	LF	3/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.47	7.97
		<i>For Single Layer Of Felt Finish, Add</i>	1.36	
		<i>For Work In Restricted Working Space, Add</i>	6.47	
22 07 19 00-0148	LF	1" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.77	7.97
		<i>For Single Layer Of Felt Finish, Add</i>	1.45	
		<i>For Work In Restricted Working Space, Add</i>	6.58	
22 07 19 00-0149	LF	1-1/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.82	8.12
		<i>For Single Layer Of Felt Finish, Add</i>	1.54	
		<i>For Work In Restricted Working Space, Add</i>	6.66	
22 07 19 00-0150	LF	1-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.29	8.41
		<i>For Single Layer Of Felt Finish, Add</i>	1.62	
		<i>For Work In Restricted Working Space, Add</i>	6.86	
22 07 19 00-0151	LF	2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.68	8.71
		<i>For Single Layer Of Felt Finish, Add</i>	1.69	
		<i>For Work In Restricted Working Space, Add</i>	7.08	
22 07 19 00-0152	LF	2-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.34	8.71
		<i>For Single Layer Of Felt Finish, Add</i>	1.82	
		<i>For Work In Restricted Working Space, Add</i>	7.19	
22 07 19 00-0153	LF	3" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.35	9.15
		<i>For Single Layer Of Felt Finish, Add</i>	1.94	
		<i>For Work In Restricted Working Space, Add</i>	7.45	
22 07 19 00-0154	LF	4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.74	9.60
		<i>For Single Layer Of Felt Finish, Add</i>	2.26	
		<i>For Work In Restricted Working Space, Add</i>	7.87	
22 07 19 00-0155	LF	6" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	54.66	10.92
		<i>For Single Layer Of Felt Finish, Add</i>	2.62	
		<i>For Work In Restricted Working Space, Add</i>	8.93	
22 07 19 00-0156	LF	8" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	71.91	11.81
		<i>For Single Layer Of Felt Finish, Add</i>	4.07	
		<i>For Work In Restricted Working Space, Add</i>	9.95	
22 07 19 00-0157	LF	10" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	85.74	14.02
		<i>For Single Layer Of Felt Finish, Add</i>	4.98	
		<i>For Work In Restricted Working Space, Add</i>	11.50	
22 07 19 00-0158	LF	12" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	98.10	17.41
		<i>For Single Layer Of Felt Finish, Add</i>	5.30	
		<i>For Work In Restricted Working Space, Add</i>	14.28	
22 07 19 00-0159	LF	14" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	110.67	19.04
		<i>For Single Layer Of Felt Finish, Add</i>	6.16	
		<i>For Work In Restricted Working Space, Add</i>	15.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0160 LF 16" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	131.13	24.35
<i>For Single Layer Of Felt Finish, Add</i>	6.79	
<i>For Work In Restricted Working Space, Add</i>	19.94	
22 07 19 00-0161 LF 18" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	140.59	25.53
<i>For Single Layer Of Felt Finish, Add</i>	7.45	
<i>For Work In Restricted Working Space, Add</i>	20.90	
22 07 19 00-0162 LF 20" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	157.92	29.22
<i>For Single Layer Of Felt Finish, Add</i>	8.21	
<i>For Work In Restricted Working Space, Add</i>	23.92	
22 07 19 00-0163 LF 24" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	188.32	35.27
<i>For Single Layer Of Felt Finish, Add</i>	9.66	
<i>For Work In Restricted Working Space, Add</i>	28.90	
22 07 19 00-0164 LF 26" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	215.62	41.62
<i>For Single Layer Of Felt Finish, Add</i>	10.72	
<i>For Work In Restricted Working Space, Add</i>	34.06	
22 07 19 00-0165 LF 28" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	243.96	48.99
<i>For Single Layer Of Felt Finish, Add</i>	11.58	
<i>For Work In Restricted Working Space, Add</i>	40.10	
22 07 19 00-0166 LF 30" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	276.36	57.85
<i>For Single Layer Of Felt Finish, Add</i>	12.39	
<i>For Work In Restricted Working Space, Add</i>	47.50	
22 07 19 00-0167 LF 36" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	335.42	73.55
<i>For Single Layer Of Felt Finish, Add</i>	14.08	
<i>For Work In Restricted Working Space, Add</i>	60.40	
22 07 19 00-0168 LF 42" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	394.48	89.59
<i>For Single Layer Of Felt Finish, Add</i>	15.76	
<i>For Work In Restricted Working Space, Add</i>	73.30	
22 07 19 00-0169 LF 44" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	425.24	98.44
<i>For Single Layer Of Felt Finish, Add</i>	16.37	
<i>For Work In Restricted Working Space, Add</i>	80.79	
22 07 19 00-0170 LF 46" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	452.71	105.96
<i>For Single Layer Of Felt Finish, Add</i>	17.03	
<i>For Work In Restricted Working Space, Add</i>	87.15	
22 07 19 00-0171 5" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0172 LF 1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.73	8.77
<i>For Single Layer Of Felt Finish, Add</i>	1.47	
<i>For Work In Restricted Working Space, Add</i>	7.11	
22 07 19 00-0173 LF 3/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.23	8.77
<i>For Single Layer Of Felt Finish, Add</i>	1.52	
<i>For Work In Restricted Working Space, Add</i>	7.11	
22 07 19 00-0174 LF 1" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.68	8.77
<i>For Single Layer Of Felt Finish, Add</i>	1.63	
<i>For Work In Restricted Working Space, Add</i>	7.24	
22 07 19 00-0175 LF 1-1/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.86	8.93
<i>For Single Layer Of Felt Finish, Add</i>	1.73	
<i>For Work In Restricted Working Space, Add</i>	7.32	
22 07 19 00-0176 LF 1-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.52	9.25
<i>For Single Layer Of Felt Finish, Add</i>	1.82	
<i>For Work In Restricted Working Space, Add</i>	7.55	
22 07 19 00-0177 LF 2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	44.03	9.58
<i>For Single Layer Of Felt Finish, Add</i>	1.90	
<i>For Work In Restricted Working Space, Add</i>	7.79	
22 07 19 00-0178 LF 2-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.91	9.58
<i>For Single Layer Of Felt Finish, Add</i>	2.05	
<i>For Work In Restricted Working Space, Add</i>	7.91	
22 07 19 00-0179 LF 3" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.16	10.07
<i>For Single Layer Of Felt Finish, Add</i>	2.19	
<i>For Work In Restricted Working Space, Add</i>	8.20	
22 07 19 00-0180 LF 4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	53.06	10.55
<i>For Single Layer Of Felt Finish, Add</i>	2.54	
<i>For Work In Restricted Working Space, Add</i>	8.66	
22 07 19 00-0181 LF 6" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.76	12.01
<i>For Single Layer Of Felt Finish, Add</i>	2.94	
<i>For Work In Restricted Working Space, Add</i>	9.82	
22 07 19 00-0182 LF 8" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	80.06	12.98
<i>For Single Layer Of Felt Finish, Add</i>	4.57	
<i>For Work In Restricted Working Space, Add</i>	10.95	
22 07 19 00-0183 LF 10" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	95.49	15.42
<i>For Single Layer Of Felt Finish, Add</i>	5.60	
<i>For Work In Restricted Working Space, Add</i>	12.65	
22 07 19 00-0184 LF 12" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	109.19	19.16
<i>For Single Layer Of Felt Finish, Add</i>	5.97	
<i>For Work In Restricted Working Space, Add</i>	15.71	
22 07 19 00-0185 LF 14" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	123.20	20.94
<i>For Single Layer Of Felt Finish, Add</i>	6.93	
<i>For Work In Restricted Working Space, Add</i>	17.16	
22 07 19 00-0186 LF 16" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	145.86	26.78
<i>For Single Layer Of Felt Finish, Add</i>	7.64	
<i>For Work In Restricted Working Space, Add</i>	21.94	
22 07 19 00-0187 LF 18" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	156.42	28.08
<i>For Single Layer Of Felt Finish, Add</i>	8.38	
<i>For Work In Restricted Working Space, Add</i>	22.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0188 LF 20" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	175.67	32.15
For Single Layer Of Felt Finish, Add	9.24	
For Work In Restricted Working Space, Add	26.31	
22 07 19 00-0189 LF 24" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	209.46	38.80
For Single Layer Of Felt Finish, Add	10.87	
For Work In Restricted Working Space, Add	31.79	
22 07 19 00-0190 LF 26" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	239.72	45.78
For Single Layer Of Felt Finish, Add	12.06	
For Work In Restricted Working Space, Add	37.46	
22 07 19 00-0191 LF 28" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	271.13	53.90
For Single Layer Of Felt Finish, Add	13.03	
For Work In Restricted Working Space, Add	44.12	
22 07 19 00-0192 LF 30" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	306.97	63.64
For Single Layer Of Felt Finish, Add	13.94	
For Work In Restricted Working Space, Add	52.26	
22 07 19 00-0193 LF 36" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	372.32	80.91
For Single Layer Of Felt Finish, Add	15.84	
For Work In Restricted Working Space, Add	66.44	
22 07 19 00-0194 LF 42" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	437.69	98.54
For Single Layer Of Felt Finish, Add	17.74	
For Work In Restricted Working Space, Add	80.63	
22 07 19 00-0195 LF 44" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	471.67	108.28
For Single Layer Of Felt Finish, Add	18.42	
For Work In Restricted Working Space, Add	88.87	
22 07 19 00-0196 LF 46" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	502.05	116.56
For Single Layer Of Felt Finish, Add	19.16	
For Work In Restricted Working Space, Add	95.87	
22 07 19 00-0197 Foamglas (Cellular Glass) Pipe Insulation, Rigid, Closed Cell <small>(22 07 19)</small>		
Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0198 1" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0197)</small>		
22 07 19 00-0199 LF 1/2" Diameter Pipe, 1" Thick Foamglas Insulation	23.12	6.70
For Work In Restricted Working Space, Add	6.09	
22 07 19 00-0200 LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation	23.84	6.70
For Work In Restricted Working Space, Add	6.09	
22 07 19 00-0201 LF 1" Diameter Pipe, 1" Thick Foamglas Insulation	24.86	6.80
For Work In Restricted Working Space, Add	6.17	
22 07 19 00-0202 LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation	25.40	6.89
For Work In Restricted Working Space, Add	6.26	
22 07 19 00-0203 LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation	26.18	6.99
For Work In Restricted Working Space, Add	6.35	
22 07 19 00-0204 LF 2" Diameter Pipe, 1" Thick Foamglas Insulation	27.69	7.18
For Work In Restricted Working Space, Add	6.53	
22 07 19 00-0205 LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation	29.62	7.48
For Work In Restricted Working Space, Add	6.80	
22 07 19 00-0206 LF 3" Diameter Pipe, 1" Thick Foamglas Insulation	31.60	7.67
For Work In Restricted Working Space, Add	6.98	
22 07 19 00-0207 LF 4" Diameter Pipe, 1" Thick Foamglas Insulation	36.02	8.25
For Work In Restricted Working Space, Add	7.50	
22 07 19 00-0208 LF 6" Diameter Pipe, 1" Thick Foamglas Insulation	44.86	9.30
For Work In Restricted Working Space, Add	8.47	
22 07 19 00-0209 1-1/2" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0197)</small>		
22 07 19 00-0210 LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	26.78	7.42
For Work In Restricted Working Space, Add	6.53	
22 07 19 00-0211 LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	27.23	7.42
For Work In Restricted Working Space, Add	6.53	
22 07 19 00-0212 LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	27.97	7.52
For Work In Restricted Working Space, Add	6.62	
22 07 19 00-0213 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	28.59	7.62
For Work In Restricted Working Space, Add	6.71	
22 07 19 00-0214 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	29.17	7.72
For Work In Restricted Working Space, Add	6.80	
22 07 19 00-0215 LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	31.33	7.98
For Work In Restricted Working Space, Add	7.02	
22 07 19 00-0216 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	34.87	8.28
For Work In Restricted Working Space, Add	7.29	
22 07 19 00-0217 LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	38.01	8.53
For Work In Restricted Working Space, Add	7.50	
22 07 19 00-0218 LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	42.59	9.07
For Work In Restricted Working Space, Add	7.99	
22 07 19 00-0219 LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	49.82	10.28
For Work In Restricted Working Space, Add	9.04	
22 07 19 00-0220 LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	55.70	11.47
For Work In Restricted Working Space, Add	10.09	
22 07 19 00-0221 LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	67.03	13.22
For Work In Restricted Working Space, Add	11.63	
22 07 19 00-0222 LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	80.12	16.43
For Work In Restricted Working Space, Add	14.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0223 LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	88.71 15.71	17.28
22 07 19 00-0224 LF 16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	97.89 17.55	19.30
22 07 19 00-0225 LF 18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	111.71 20.76	22.83
22 07 19 00-0226 LF 20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	124.61 22.98	25.28
22 07 19 00-0227 LF 24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation..... <i>For Work In Restricted Working Space, Add</i>	152.72 25.46	28.00
22 07 19 00-0228 2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0229 LF 1/2" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	29.77 6.98	7.67
22 07 19 00-0230 LF 3/4" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	30.48 6.98	7.67
22 07 19 00-0231 LF 1" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	31.47 7.06	7.75
22 07 19 00-0232 LF 1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	32.86 7.15	7.87
22 07 19 00-0233 LF 1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	34.28 7.24	7.97
22 07 19 00-0234 LF 2" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	37.80 7.50	8.25
22 07 19 00-0235 LF 2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	39.55 7.77	8.55
22 07 19 00-0236 LF 3" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	42.17 8.03	8.83
22 07 19 00-0237 LF 4" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	46.99 8.47	9.32
22 07 19 00-0238 LF 6" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	55.74 9.62	10.58
22 07 19 00-0239 LF 8" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	62.08 10.73	11.81
22 07 19 00-0240 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	74.95 12.37	13.61
22 07 19 00-0241 LF 12" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	92.88 15.38	16.92
22 07 19 00-0242 LF 14" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	99.54 16.78	18.47
22 07 19 00-0243 LF 16" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	119.09 21.45	23.60
22 07 19 00-0244 LF 18" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	129.07 22.52	24.78
22 07 19 00-0245 LF 20" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	143.52 25.75	28.32
22 07 19 00-0246 LF 24" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	178.98 31.11	34.21
22 07 19 00-0247 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0248 LF 1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	35.37 7.56	8.32
22 07 19 00-0249 LF 3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	36.55 7.55	8.31
22 07 19 00-0250 LF 1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	38.18 7.68	8.44
22 07 19 00-0251 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	39.56 7.73	8.51
22 07 19 00-0252 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	40.98 7.80	8.58
22 07 19 00-0253 LF 2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	43.72 8.12	8.92
22 07 19 00-0254 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	46.31 8.40	9.24
22 07 19 00-0255 LF 3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	49.93 8.69	9.56
22 07 19 00-0256 LF 4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	55.46 9.17	10.08
22 07 19 00-0257 LF 6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	65.85 10.42	11.47
22 07 19 00-0258 LF 8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	73.37 11.62	12.78
22 07 19 00-0259 LF 10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	83.84 13.40	14.73
22 07 19 00-0260 LF 12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	104.37 16.65	18.32
22 07 19 00-0261 LF 14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	109.53 18.17	19.99
22 07 19 00-0262 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	130.68 23.23	25.55
22 07 19 00-0263 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	141.36 24.39	26.82

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0264	LF		20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	162.39 27.88	30.66
22 07 19 00-0265	LF		24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	202.33 33.68	37.05
22 07 19 00-0266			3" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0197)</small>		
22 07 19 00-0267	LF		1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	41.80 8.04	8.84
22 07 19 00-0268	LF		3/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	42.52 8.04	8.84
22 07 19 00-0269	LF		1" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.68 8.17	8.99
22 07 19 00-0270	LF		1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	44.59 8.23	9.04
22 07 19 00-0271	LF		1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	45.55 8.30	9.13
22 07 19 00-0272	LF		2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	48.71 8.64	9.50
22 07 19 00-0273	LF		2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.73 8.93	9.83
22 07 19 00-0274	LF		3" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	58.00 9.25	10.17
22 07 19 00-0275	LF		4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	65.53 9.75	10.72
22 07 19 00-0276	LF		6" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	72.09 11.08	12.19
22 07 19 00-0277	LF		8" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	81.30 12.36	13.59
22 07 19 00-0278	LF		10" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	96.58 14.25	15.68
22 07 19 00-0279	LF		12" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	113.14 17.71	19.48
22 07 19 00-0280	LF		14" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	121.44 19.33	21.26
22 07 19 00-0281	LF		16" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	146.34 24.71	27.19
22 07 19 00-0282	LF		18" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	156.24 25.95	28.54
22 07 19 00-0283	LF		20" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	182.48 29.66	32.62
22 07 19 00-0284	LF		24" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	222.74 35.83	39.42
22 07 19 00-0285			3-1/2" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0197)</small>		
22 07 19 00-0286	LF		1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.40 9.75	10.72
22 07 19 00-0287	LF		3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.30 9.75	10.72
22 07 19 00-0288	LF		1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	52.43 9.82	10.79
22 07 19 00-0289	LF		1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	53.53 9.88	10.86
22 07 19 00-0290	LF		1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	54.85 10.00	10.99
22 07 19 00-0291	LF		2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.81 10.34	11.39
22 07 19 00-0292	LF		2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	64.84 10.70	11.78
22 07 19 00-0293	LF		3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	68.31 11.08	12.19
22 07 19 00-0294	LF		4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	73.03 11.72	12.89
22 07 19 00-0295	LF		6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	83.92 13.30	14.63
22 07 19 00-0296	LF		8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	95.17 14.81	16.29
22 07 19 00-0297	LF		10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	113.33 17.10	18.81
22 07 19 00-0298	LF		12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	134.76 21.25	23.37
22 07 19 00-0299	LF		14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	141.41 23.20	25.52
22 07 19 00-0300	LF		16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	171.00 29.66	32.62
22 07 19 00-0301	LF		18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	186.77 31.14	34.26
22 07 19 00-0302	LF		20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	212.77 35.61	39.17
22 07 19 00-0303	LF		24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	260.69 43.00	47.29



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0304				4" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0197)</small>		
			LF	1/2" Diameter Pipe, 4" Thick Foamglas Insulation	61.44	13.18
				<i>For Work In Restricted Working Space, Add</i>	11.98	
			LF	3/4" Diameter Pipe, 4" Thick Foamglas Insulation	62.61	13.18
				<i>For Work In Restricted Working Space, Add</i>	11.98	
			LF	1" Diameter Pipe, 4" Thick Foamglas Insulation	64.47	13.40
				<i>For Work In Restricted Working Space, Add</i>	12.19	
			LF	1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation	66.11	13.57
				<i>For Work In Restricted Working Space, Add</i>	12.33	
			LF	1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation	68.57	13.99
				<i>For Work In Restricted Working Space, Add</i>	12.71	
			LF	2" Diameter Pipe, 4" Thick Foamglas Insulation	73.58	14.41
				<i>For Work In Restricted Working Space, Add</i>	13.11	
			LF	2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation	77.93	14.64
				<i>For Work In Restricted Working Space, Add</i>	13.31	
			LF	3" Diameter Pipe, 4" Thick Foamglas Insulation	81.69	15.19
				<i>For Work In Restricted Working Space, Add</i>	13.80	
			LF	4" Diameter Pipe, 4" Thick Foamglas Insulation	89.52	16.93
				<i>For Work In Restricted Working Space, Add</i>	15.39	
			LF	6" Diameter Pipe, 4" Thick Foamglas Insulation	102.54	18.17
				<i>For Work In Restricted Working Space, Add</i>	16.53	
			LF	8" Diameter Pipe, 4" Thick Foamglas Insulation	115.19	19.71
				<i>For Work In Restricted Working Space, Add</i>	17.92	
			LF	10" Diameter Pipe, 4" Thick Foamglas Insulation	132.54	23.43
				<i>For Work In Restricted Working Space, Add</i>	21.29	
			LF	12" Diameter Pipe, 4" Thick Foamglas Insulation	156.07	29.09
				<i>For Work In Restricted Working Space, Add</i>	26.44	
			LF	14" Diameter Pipe, 4" Thick Foamglas Insulation	169.82	31.76
				<i>For Work In Restricted Working Space, Add</i>	28.89	
			LF	16" Diameter Pipe, 4" Thick Foamglas Insulation	203.64	40.62
				<i>For Work In Restricted Working Space, Add</i>	36.93	
			LF	18" Diameter Pipe, 4" Thick Foamglas Insulation	224.69	42.58
				<i>For Work In Restricted Working Space, Add</i>	38.70	
			LF	20" Diameter Pipe, 4" Thick Foamglas Insulation	252.59	48.72
				<i>For Work In Restricted Working Space, Add</i>	44.30	
			LF	24" Diameter Pipe, 4" Thick Foamglas Insulation	318.28	58.87
				<i>For Work In Restricted Working Space, Add</i>	53.51	
22 07 19 00-0323				Flexible Polyethylene Tubing Closed Cell Foam Insulation <small>(22 07 19)</small>		
				Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0324				3/8" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0323)</small>		
			LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.72	4.10
				<i>For Work In Restricted Working Space, Add</i>	2.47	
			LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.73	4.10
				<i>For Work In Restricted Working Space, Add</i>	2.47	
			LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.08	4.25
				<i>For Work In Restricted Working Space, Add</i>	2.55	
			LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.44	4.40
				<i>For Work In Restricted Working Space, Add</i>	2.64	
			LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.77	4.48
				<i>For Work In Restricted Working Space, Add</i>	2.68	
			LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.15	4.55
				<i>For Work In Restricted Working Space, Add</i>	2.73	
			LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.30	4.55
				<i>For Work In Restricted Working Space, Add</i>	2.74	
			LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.72	4.55
				<i>For Work In Restricted Working Space, Add</i>	2.75	
			LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.56	4.68
				<i>For Work In Restricted Working Space, Add</i>	2.83	
			LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.93	4.77
				<i>For Work In Restricted Working Space, Add</i>	2.88	
22 07 19 00-0335				1/2" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0323)</small>		
			LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.66	4.48
				<i>For Work In Restricted Working Space, Add</i>	2.68	
			LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.76	4.48
				<i>For Work In Restricted Working Space, Add</i>	2.70	
			LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.92	4.55
				<i>For Work In Restricted Working Space, Add</i>	2.73	
			LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.09	4.58
				<i>For Work In Restricted Working Space, Add</i>	2.75	
			LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.58	4.68
				<i>For Work In Restricted Working Space, Add</i>	2.81	
			LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.98	4.77
				<i>For Work In Restricted Working Space, Add</i>	2.85	
			LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.45	4.83
				<i>For Work In Restricted Working Space, Add</i>	2.90	
			LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.00	4.90
				<i>For Work In Restricted Working Space, Add</i>	2.94	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0344	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.96 3.03	5.05
22 07 19 00-0345	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.94 3.07	5.12
22 07 19 00-0346	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.88 3.11	5.19
22 07 19 00-0347	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.44 3.16	5.26
22 07 19 00-0348		3/4" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0349	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.73 2.90	4.83
22 07 19 00-0350	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.87 2.94	4.90
22 07 19 00-0351	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.53 3.03	5.05
22 07 19 00-0352	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.83 3.07	5.12
22 07 19 00-0353	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.65 3.16	5.26
22 07 19 00-0354	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.47 3.20	5.34
22 07 19 00-0355	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.83 3.22	5.37
22 07 19 00-0356	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.32 3.25	5.41
22 07 19 00-0357	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.38 3.33	5.54
22 07 19 00-0358	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.52 3.37	5.63
22 07 19 00-0359	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.00 3.42	5.69
22 07 19 00-0360	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.63 3.46	5.76
22 07 19 00-0361		1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0362	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.18 3.20	5.34
22 07 19 00-0363	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.48 3.25	5.41
22 07 19 00-0364	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.41 3.33	5.54
22 07 19 00-0365	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.70 3.37	5.63
22 07 19 00-0366	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.09 3.46	5.76
22 07 19 00-0367	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.79 3.55	5.91
22 07 19 00-0368	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.08 3.59	5.98
22 07 19 00-0369	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.40 3.63	6.05
22 07 19 00-0370	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.37 3.72	6.21
22 07 19 00-0371	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.20 3.77	6.28
22 07 19 00-0372		Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19) Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0373		3/8" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0374	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.99 2.47	4.10
22 07 19 00-0375	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.12 2.47	4.10
22 07 19 00-0376	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.47 2.55	4.25
22 07 19 00-0377	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.68 2.60	4.32
22 07 19 00-0378	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.90 2.64	4.40
22 07 19 00-0379	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.19 2.68	4.48
22 07 19 00-0380	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.45 2.73	4.55
22 07 19 00-0381	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.69 2.74	4.55
22 07 19 00-0382	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.90 2.75	4.55
22 07 19 00-0383	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.12 2.77	4.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0384 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.45 2.81	4.68
22 07 19 00-0385 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.73 2.83	4.68
22 07 19 00-0386 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.93 2.85	4.77
22 07 19 00-0387 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.22 2.88	4.77
22 07 19 00-0388 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.82 2.90	4.83
22 07 19 00-0389 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.53 2.94	4.90
22 07 19 00-0390 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.29 2.96	4.93
22 07 19 00-0391 1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0392 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.10 2.68	4.48
22 07 19 00-0393 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.22 2.70	4.48
22 07 19 00-0394 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.37 2.73	4.55
22 07 19 00-0395 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.57 2.74	4.55
22 07 19 00-0396 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.72 2.75	4.55
22 07 19 00-0397 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.13 2.81	4.68
22 07 19 00-0398 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.51 2.85	4.77
22 07 19 00-0399 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.85 2.90	4.83
22 07 19 00-0400 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.19 2.92	4.88
22 07 19 00-0401 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.46 2.94	4.90
22 07 19 00-0402 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.47 2.99	4.98
22 07 19 00-0403 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.07 3.03	5.05
22 07 19 00-0404 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.53 3.05	5.09
22 07 19 00-0405 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.92 3.07	5.12
22 07 19 00-0406 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.21 3.09	5.16
22 07 19 00-0407 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.45 3.11	5.19
22 07 19 00-0408 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.61 3.16	5.26
22 07 19 00-0409 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.89 3.18	5.30
22 07 19 00-0410 LF 5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.00 3.20	5.34
22 07 19 00-0411 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.34 3.29	5.48
22 07 19 00-0412 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.84 3.37	5.63
22 07 19 00-0413 3/4" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0414 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.52 2.90	4.83
22 07 19 00-0415 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.82 2.94	4.90
22 07 19 00-0416 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.28 3.03	5.05
22 07 19 00-0417 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.54 3.05	5.09
22 07 19 00-0418 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.67 3.07	5.12
22 07 19 00-0419 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.33 3.16	5.26
22 07 19 00-0420 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.84 3.20	5.34
22 07 19 00-0421 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.36 3.25	5.41
22 07 19 00-0422 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.49 3.25	5.41
22 07 19 00-0423 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.69 3.27	5.45
22 07 19 00-0424 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.28 3.29	5.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0425 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.61 3.33	5.54
22 07 19 00-0426 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.28 3.35	5.59
22 07 19 00-0427 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.75 3.37	5.63
22 07 19 00-0428 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.46 3.40	5.67
22 07 19 00-0429 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.74 3.42	5.69
22 07 19 00-0430 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.81 3.46	5.76
22 07 19 00-0431 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.65 3.48	5.80
22 07 19 00-0432 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.06 3.50	5.83
22 07 19 00-0433 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.57 3.55	5.91
22 07 19 00-0434 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.41 3.63	6.05
22 07 19 00-0435 1" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-0372)</small>		
22 07 19 00-0436 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.39 3.20	5.33
22 07 19 00-0437 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.76 3.25	5.41
22 07 19 00-0438 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.24 3.33	5.54
22 07 19 00-0439 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.62 3.35	5.59
22 07 19 00-0440 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.96 3.37	5.63
22 07 19 00-0441 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.58 3.46	5.76
22 07 19 00-0442 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.50 3.55	5.91
22 07 19 00-0443 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.98 3.59	5.91
22 07 19 00-0444 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.59 3.61	5.98
22 07 19 00-0445 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.82 3.63	6.05
22 07 19 00-0446 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.13 3.68	6.14
22 07 19 00-0447 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.17 3.72	6.21
22 07 19 00-0448 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.45 3.74	6.25
22 07 19 00-0449 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.84 3.77	6.28
22 07 19 00-0450 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.51 3.78	6.32
22 07 19 00-0451 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.85 3.80	6.35
22 07 19 00-0452 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.34 3.89	6.50
22 07 19 00-0453 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.02 3.94	6.56
22 07 19 00-0454 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	29.47 3.98	6.63
22 07 19 00-0455 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	32.10 4.07	6.78
22 07 19 00-0456 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-0372)</small>		
22 07 19 00-0457 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.65 3.58	5.97
22 07 19 00-0458 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.15 3.67	6.10
22 07 19 00-0459 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.54 3.69	6.14
22 07 19 00-0460 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.92 3.70	6.20
22 07 19 00-0461 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.50 3.79	6.33
22 07 19 00-0462 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.45 3.93	6.56
22 07 19 00-0463 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.67 3.97	6.47
22 07 19 00-0464 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.75 4.02	6.62
22 07 19 00-0465 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.43 4.07	6.78



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0466 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	27.46	6.86
<i>For Work In Restricted Working Space, Add</i>	4.11	
22 07 19 00-0467 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	29.38	6.95
<i>For Work In Restricted Working Space, Add</i>	4.15	
22 07 19 00-0468 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	30.29	6.97
<i>For Work In Restricted Working Space, Add</i>	4.18	
22 07 19 00-0469 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	31.19	6.99
<i>For Work In Restricted Working Space, Add</i>	4.20	
22 07 19 00-0470 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	32.24	7.03
<i>For Work In Restricted Working Space, Add</i>	4.22	
22 07 19 00-0471 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	32.91	7.06
<i>For Work In Restricted Working Space, Add</i>	4.24	
22 07 19 00-0472 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	36.55	7.32
<i>For Work In Restricted Working Space, Add</i>	4.38	
22 07 19 00-0473 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	38.50	7.42
<i>For Work In Restricted Working Space, Add</i>	4.45	
22 07 19 00-0474 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	43.15	7.53
<i>For Work In Restricted Working Space, Add</i>	4.52	
22 07 19 00-0475 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	47.81	7.77
<i>For Work In Restricted Working Space, Add</i>	4.66	
22 07 19 00-0476 2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-0372)</small>		
22 07 19 00-0477 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	27.71	6.59
<i>For Work In Restricted Working Space, Add</i>	3.95	
22 07 19 00-0478 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	28.77	6.69
<i>For Work In Restricted Working Space, Add</i>	4.04	
22 07 19 00-0479 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	30.49	6.74
<i>For Work In Restricted Working Space, Add</i>	4.05	
22 07 19 00-0480 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	31.08	6.80
<i>For Work In Restricted Working Space, Add</i>	4.07	
22 07 19 00-0481 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	32.59	6.93
<i>For Work In Restricted Working Space, Add</i>	4.15	
22 07 19 00-0482 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	34.50	7.26
<i>For Work In Restricted Working Space, Add</i>	4.35	
22 07 19 00-0483 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	35.56	7.08
<i>For Work In Restricted Working Space, Add</i>	4.38	
22 07 19 00-0484 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	37.50	7.33
<i>For Work In Restricted Working Space, Add</i>	4.47	
22 07 19 00-0485 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	39.35	7.57
<i>For Work In Restricted Working Space, Add</i>	4.55	
22 07 19 00-0486 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	40.58	7.67
<i>For Work In Restricted Working Space, Add</i>	4.59	
22 07 19 00-0487 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	43.08	7.77
<i>For Work In Restricted Working Space, Add</i>	4.64	
22 07 19 00-0488 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	43.40	7.78
<i>For Work In Restricted Working Space, Add</i>	4.66	
22 07 19 00-0489 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	45.72	7.79
<i>For Work In Restricted Working Space, Add</i>	4.69	
22 07 19 00-0490 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	47.34	7.83
<i>For Work In Restricted Working Space, Add</i>	4.70	
22 07 19 00-0491 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	49.06	7.87
<i>For Work In Restricted Working Space, Add</i>	4.72	
22 07 19 00-0492 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	54.88	8.24
<i>For Work In Restricted Working Space, Add</i>	4.92	
22 07 19 00-0493 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	58.27	8.40
<i>For Work In Restricted Working Space, Add</i>	5.03	
22 07 19 00-0494 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	59.31	8.57
<i>For Work In Restricted Working Space, Add</i>	5.14	
22 07 19 00-0495 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	66.31	8.91
<i>For Work In Restricted Working Space, Add</i>	5.34	
22 07 19 00-0496 Flexible Polyolefin Tubing Closed Cell Foam Insulation <small>(22 07 19)</small>		
Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0497 3/8" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-0496)</small>		
22 07 19 00-0498 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	8.74	4.10
<i>For Work In Restricted Working Space, Add</i>	2.47	
22 07 19 00-0499 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	8.82	4.10
<i>For Work In Restricted Working Space, Add</i>	2.47	
22 07 19 00-0500 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.13	4.25
<i>For Work In Restricted Working Space, Add</i>	2.55	
22 07 19 00-0501 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.51	4.40
<i>For Work In Restricted Working Space, Add</i>	2.64	
22 07 19 00-0502 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.75	4.48
<i>For Work In Restricted Working Space, Add</i>	2.68	
22 07 19 00-0503 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.13	4.55
<i>For Work In Restricted Working Space, Add</i>	2.73	
22 07 19 00-0504 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.40	4.55
<i>For Work In Restricted Working Space, Add</i>	2.74	
22 07 19 00-0505 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.60	4.68
<i>For Work In Restricted Working Space, Add</i>	2.75	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0506	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.51	4.68	
		<i>For Work In Restricted Working Space, Add</i>	2.83		
22 07 19 00-0507	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.31	4.77	
		<i>For Work In Restricted Working Space, Add</i>	2.88		
22 07 19 00-0508	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	14.30	4.90	
		<i>For Work In Restricted Working Space, Add</i>	2.94		
22 07 19 00-0509		1/2" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-0496)</small>			
22 07 19 00-0510	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.72	4.48	
		<i>For Work In Restricted Working Space, Add</i>	2.68		
22 07 19 00-0511	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.81	4.48	
		<i>For Work In Restricted Working Space, Add</i>	2.70		
22 07 19 00-0512	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.99	4.55	
		<i>For Work In Restricted Working Space, Add</i>	2.73		
22 07 19 00-0513	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.21	4.55	
		<i>For Work In Restricted Working Space, Add</i>	2.75		
22 07 19 00-0514	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.52	4.68	
		<i>For Work In Restricted Working Space, Add</i>	2.81		
22 07 19 00-0515	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.94	4.77	
		<i>For Work In Restricted Working Space, Add</i>	2.85		
22 07 19 00-0516	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.40	4.83	
		<i>For Work In Restricted Working Space, Add</i>	2.90		
22 07 19 00-0517	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.84	4.90	
		<i>For Work In Restricted Working Space, Add</i>	2.94		
22 07 19 00-0518	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.81	5.05	
		<i>For Work In Restricted Working Space, Add</i>	3.03		
22 07 19 00-0519	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.65	5.12	
		<i>For Work In Restricted Working Space, Add</i>	3.07		
22 07 19 00-0520	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	15.25	5.26	
		<i>For Work In Restricted Working Space, Add</i>	3.16		
22 07 19 00-0521		3/4" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-0496)</small>			
22 07 19 00-0522	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.84	4.83	
		<i>For Work In Restricted Working Space, Add</i>	2.90		
22 07 19 00-0523	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.17	4.90	
		<i>For Work In Restricted Working Space, Add</i>	2.94		
22 07 19 00-0524	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.59	5.05	
		<i>For Work In Restricted Working Space, Add</i>	3.03		
22 07 19 00-0525	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.17	5.12	
		<i>For Work In Restricted Working Space, Add</i>	3.07		
22 07 19 00-0526	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.76	5.26	
		<i>For Work In Restricted Working Space, Add</i>	3.16		
22 07 19 00-0527	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.69	5.34	
		<i>For Work In Restricted Working Space, Add</i>	3.20		
22 07 19 00-0528	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	14.27	5.34	
		<i>For Work In Restricted Working Space, Add</i>	3.22		
22 07 19 00-0529	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	14.96	5.41	
		<i>For Work In Restricted Working Space, Add</i>	3.25		
22 07 19 00-0530	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	16.30	5.54	
		<i>For Work In Restricted Working Space, Add</i>	3.33		
22 07 19 00-0531	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	17.50	5.63	
		<i>For Work In Restricted Working Space, Add</i>	3.37		
22 07 19 00-0532	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	19.80	5.76	
		<i>For Work In Restricted Working Space, Add</i>	3.46		
22 07 19 00-0533		1" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-0496)</small>			
22 07 19 00-0534	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.72	5.34	
		<i>For Work In Restricted Working Space, Add</i>	3.20		
22 07 19 00-0535	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.91	5.41	
		<i>For Work In Restricted Working Space, Add</i>	3.25		
22 07 19 00-0536	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.33	5.54	
		<i>For Work In Restricted Working Space, Add</i>	3.33		
22 07 19 00-0537	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	14.16	5.63	
		<i>For Work In Restricted Working Space, Add</i>	3.37		
22 07 19 00-0538	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	14.90	5.76	
		<i>For Work In Restricted Working Space, Add</i>	3.46		
22 07 19 00-0539	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	15.64	5.91	
		<i>For Work In Restricted Working Space, Add</i>	3.55		
22 07 19 00-0540	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	16.33	5.91	
		<i>For Work In Restricted Working Space, Add</i>	3.59		
22 07 19 00-0541	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	17.84	6.05	
		<i>For Work In Restricted Working Space, Add</i>	3.63		
22 07 19 00-0542	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	19.88	6.21	
		<i>For Work In Restricted Working Space, Add</i>	3.72		
22 07 19 00-0543	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	21.32	6.28	
		<i>For Work In Restricted Working Space, Add</i>	3.77		
22 07 19 00-0544		Flexible Elastomeric Unicellular Insulation <small>(22 07 19)</small>			
		Note: For refrigeration piping. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
each fitting.		
22 07 19 00-0545 3/8" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0546 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	9.63	4.10
For Work In Restricted Working Space, Add	2.46	
22 07 19 00-0547 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	10.14	4.25
For Work In Restricted Working Space, Add	2.55	
22 07 19 00-0548 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	10.62	4.41
For Work In Restricted Working Space, Add	2.64	
22 07 19 00-0549 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	11.00	4.48
For Work In Restricted Working Space, Add	2.68	
22 07 19 00-0550 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	11.42	4.55
For Work In Restricted Working Space, Add	2.73	
22 07 19 00-0551 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	12.02	4.58
For Work In Restricted Working Space, Add	2.74	
22 07 19 00-0552 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	12.81	4.70
For Work In Restricted Working Space, Add	2.81	
22 07 19 00-0553 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	14.64	4.73
For Work In Restricted Working Space, Add	2.83	
22 07 19 00-0554 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	15.97	4.79
For Work In Restricted Working Space, Add	2.88	
22 07 19 00-0555 1/2" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0556 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	10.95	4.41
For Work In Restricted Working Space, Add	2.64	
22 07 19 00-0557 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	11.45	4.55
For Work In Restricted Working Space, Add	2.73	
22 07 19 00-0558 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	11.79	4.55
For Work In Restricted Working Space, Add	2.75	
22 07 19 00-0559 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	12.32	4.68
For Work In Restricted Working Space, Add	2.81	
22 07 19 00-0560 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	12.75	4.77
For Work In Restricted Working Space, Add	2.85	
22 07 19 00-0561 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	13.40	4.83
For Work In Restricted Working Space, Add	2.90	
22 07 19 00-0562 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	14.58	4.90
For Work In Restricted Working Space, Add	2.94	
22 07 19 00-0563 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	16.52	5.05
For Work In Restricted Working Space, Add	3.03	
22 07 19 00-0564 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	17.80	5.12
For Work In Restricted Working Space, Add	3.07	
22 07 19 00-0565 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	20.35	5.19
For Work In Restricted Working Space, Add	3.11	
22 07 19 00-0566 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	21.56	5.26
For Work In Restricted Working Space, Add	3.16	
22 07 19 00-0567 3/4" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0568 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	12.90	4.81
For Work In Restricted Working Space, Add	2.88	
22 07 19 00-0569 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	13.68	5.05
For Work In Restricted Working Space, Add	3.03	
22 07 19 00-0570 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	14.53	5.12
For Work In Restricted Working Space, Add	3.07	
22 07 19 00-0571 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	15.77	5.27
For Work In Restricted Working Space, Add	3.16	
22 07 19 00-0572 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	16.65	5.34
For Work In Restricted Working Space, Add	3.20	
22 07 19 00-0573 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	18.77	5.41
For Work In Restricted Working Space, Add	3.25	
22 07 19 00-0574 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	20.56	5.45
For Work In Restricted Working Space, Add	3.27	
22 07 19 00-0575 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	23.31	5.56
For Work In Restricted Working Space, Add	3.33	
22 07 19 00-0576 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	25.20	5.63
For Work In Restricted Working Space, Add	3.37	
22 07 19 00-0577 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	28.32	5.69
For Work In Restricted Working Space, Add	3.42	
22 07 19 00-0578 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	29.77	5.76
For Work In Restricted Working Space, Add	3.46	
22 07 19 00-0579 1" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0580 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	16.70	5.34
For Work In Restricted Working Space, Add	3.20	
22 07 19 00-0581 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	17.52	5.56
For Work In Restricted Working Space, Add	3.33	
22 07 19 00-0582 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	19.16	5.63
For Work In Restricted Working Space, Add	3.37	
22 07 19 00-0583 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	21.16	5.76
For Work In Restricted Working Space, Add	3.46	
22 07 19 00-0584 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	22.97	5.91
For Work In Restricted Working Space, Add	3.55	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0585	LF	1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	24.32 3.59	5.98
22 07 19 00-0586	LF	2" I.D. (2-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	26.98 3.63	6.05
22 07 19 00-0587	LF	2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	33.39 3.72	6.21
22 07 19 00-0588	LF	3" I.D. (3-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	37.99 3.77	6.28
22 07 19 00-0589	LF	3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	40.48 3.80	6.35
22 07 19 00-0590	LF	4" I.D. (4-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	45.62 3.89	6.50
22 07 19 00-0591		Insulation Foam Rubber <small>(22 07 19)</small>		
22 07 19 00-0592		Covering 4x6 Sheet <small>(22 07 19 00-0591)</small>		
22 07 19 00-0593	SF	1" Thick Foam Rubber Sheet Insulation	26.14	9.75
22 07 19 00-0594		Insulation Protective Jacketing <small>(22 07 19)</small> Note: Jacketing only and to be added to insulation prices when required.		
22 07 19 00-0595		Aluminum Insulation Protective Jacketing With Bands <small>(22 07 19 00-0594)</small>		
22 07 19 00-0596		Aluminum Roll, Insulation Protective Jacketing With Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0597	SF	0.006" Aluminum Insulation Jacket With Bands.....	20.59	8.79
22 07 19 00-0598	SF	0.010" Aluminum Insulation Jacket With Bands.....	20.92	8.79
22 07 19 00-0599	SF	0.016" Aluminum Insulation Jacket With Bands.....	21.23	8.79
22 07 19 00-0600	SF	0.020" Aluminum Insulation Jacket With Bands.....	21.52	8.79
22 07 19 00-0601	SF	0.024" Aluminum Insulation Jacket With Bands.....	21.79	8.79
22 07 19 00-0602		16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0603	LF	1/2" ID, 0.016" Aluminum Insulation Jacketing	10.43	2.49
		<i>For Stucco Embossed, Add</i>	0.00	
		<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0604	LF	3/4" ID, 0.016" Aluminum Insulation Jacketing	10.79	2.55
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0605	LF	1" ID, 0.016" Aluminum Insulation Jacketing	11.16	2.62
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0606	LF	1-1/4" ID, 0.016" Aluminum Insulation Jacketing	11.55	2.68
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0607	LF	1-1/2" ID, 0.016" Aluminum Insulation Jacketing	11.84	2.72
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0608	LF	1-3/4" ID, 0.016" Aluminum Insulation Jacketing	12.13	2.76
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0609	LF	2" ID, 0.016" Aluminum Insulation Jacketing	12.49	2.82
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0610	LF	2-1/4" ID, 0.016" Aluminum Insulation Jacketing	12.86	2.88
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0611	LF	2-1/2" ID, 0.016" Aluminum Insulation Jacketing	13.26	2.94
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0612	LF	2-3/4" ID, 0.016" Aluminum Insulation Jacketing	13.58	2.99
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0613	LF	3" ID, 0.016" Aluminum Insulation Jacketing	13.99	3.05
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0614	LF	3-1/4" ID, 0.016" Aluminum Insulation Jacketing	14.40	3.12
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0615	LF	3-1/2" ID, 0.016" Aluminum Insulation Jacketing	14.82	3.19
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0616	LF	3-3/4" ID, 0.016" Aluminum Insulation Jacketing	15.18	3.25
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0617	LF	4" ID, 0.016" Aluminum Insulation Jacketing	15.63	3.33
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0618	LF	4-1/4" ID, 0.016" Aluminum Insulation Jacketing	16.08	3.41
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0619 LF 4-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.58 0.03 0.06	3.50
22 07 19 00-0620 LF 4-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.98 0.03 0.07	3.57
22 07 19 00-0621 LF 5" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.49 0.03 0.07	3.66
22 07 19 00-0622 LF 5-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.03 0.03 0.07	3.76
22 07 19 00-0623 LF 5-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.47 0.03 0.08	3.84
22 07 19 00-0624 LF 5-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.06 0.03 0.08	3.95
22 07 19 00-0625 LF 6" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.66 0.03 0.08	4.06
22 07 19 00-0626 LF 6-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.04 0.04 0.09	4.12
22 07 19 00-0627 LF 6-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.42 0.04 0.09	4.19
22 07 19 00-0628 LF 7" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.06 0.04 0.10	4.29
22 07 19 00-0629 LF 7-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.60 0.04 0.10	4.40
22 07 19 00-0630 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.02 0.04 0.10	4.47
22 07 19 00-0631 LF 8" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.58 0.04 0.11	4.55
22 07 19 00-0632 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.15 0.05 0.12	4.62
22 07 19 00-0633 LF 9" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.89 0.05 0.12	4.74
22 07 19 00-0634 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.50 0.05 0.13	4.82
22 07 19 00-0635 LF 10" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.10 0.05 0.14	4.90
22 07 19 00-0636 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.72 0.06 0.14	4.99
22 07 19 00-0637 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.54 0.06 0.15	5.13
22 07 19 00-0638 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.21 0.06 0.16	5.23
22 07 19 00-0639 LF 12" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.87 0.07 0.16	5.33
22 07 19 00-0640 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.79 0.07 0.17	5.49
22 07 19 00-0641 LF 13" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.27 0.07 0.18	5.55
22 07 19 00-0642 LF 14" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.04 0.08 0.19	5.60
22 07 19 00-0643 LF 15" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.02 0.08 0.20	5.72
22 07 19 00-0644 LF 16" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.80 0.09 0.22	5.78
22 07 19 00-0645 LF 17" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.83 0.09 0.23	5.90
22 07 19 00-0646 LF 18" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.45 0.10 0.24	5.96

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0647 LF 19" ID, 0.016" Aluminum Insulation Jacketing	34.68	6.11
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.26	
22 07 19 00-0648 LF 20" ID, 0.016" Aluminum Insulation Jacketing	35.49	6.17
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.27	
22 07 19 00-0649 LF 21" ID, 0.016" Aluminum Insulation Jacketing	36.59	6.32
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.28	
22 07 19 00-0650 LF 22" ID, 0.016" Aluminum Insulation Jacketing	37.40	6.39
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.30	
22 07 19 00-0651 LF 23" ID, 0.016" Aluminum Insulation Jacketing	38.55	6.54
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.31	
22 07 19 00-0652 LF 24" ID, 0.016" Aluminum Insulation Jacketing	39.39	6.62
For Stucco Embossed, Add	0.13	
For Corrugated, Add	0.32	
22 07 19 00-0653 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0654 LF 1/2" ID, 0.020" Aluminum Insulation Jacketing	11.54	2.75
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.01	
22 07 19 00-0655 LF 3/4" ID, 0.020" Aluminum Insulation Jacketing	11.96	2.81
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0656 LF 1" ID, 0.020" Aluminum Insulation Jacketing	12.40	2.88
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0657 LF 1-1/4" ID, 0.020" Aluminum Insulation Jacketing	12.85	2.95
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0658 LF 1-1/2" ID, 0.020" Aluminum Insulation Jacketing	13.19	2.99
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0659 LF 1-3/4" ID, 0.020" Aluminum Insulation Jacketing	13.53	3.04
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0660 LF 2" ID, 0.020" Aluminum Insulation Jacketing	13.95	3.10
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0661 LF 2-1/4" ID, 0.020" Aluminum Insulation Jacketing	14.38	3.16
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0662 LF 2-1/2" ID, 0.020" Aluminum Insulation Jacketing	14.83	3.23
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0663 LF 2-3/4" ID, 0.020" Aluminum Insulation Jacketing	15.22	3.28
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0664 LF 3" ID, 0.020" Aluminum Insulation Jacketing	15.70	3.36
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0665 LF 3-1/4" ID, 0.020" Aluminum Insulation Jacketing	16.16	3.43
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0666 LF 3-1/2" ID, 0.020" Aluminum Insulation Jacketing	16.65	3.51
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0667 LF 3-3/4" ID, 0.020" Aluminum Insulation Jacketing	17.06	3.57
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0668 LF 4" ID, 0.020" Aluminum Insulation Jacketing	17.57	3.66
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0669 LF 4-1/4" ID, 0.020" Aluminum Insulation Jacketing	18.11	3.75
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0670 LF 4-1/2" ID, 0.020" Aluminum Insulation Jacketing	18.68	3.85
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0671 LF 4-3/4" ID, 0.020" Aluminum Insulation Jacketing	19.14	3.92
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.09	
22 07 19 00-0672 LF 5" ID, 0.020" Aluminum Insulation Jacketing	19.73	4.02
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0673 LF 5-1/4" ID, 0.020" Aluminum Insulation Jacketing	20.34	4.13
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0674 LF 5-1/2" ID, 0.020" Aluminum Insulation Jacketing	20.85	4.22
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0675 LF 5-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.52 0.04 0.10	4.35
22 07 19 00-0676 LF 6" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.20 0.04 0.11	4.48
22 07 19 00-0677 LF 6-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.63 0.04 0.11	4.55
22 07 19 00-0678 LF 6-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.09 0.05 0.12	4.61
22 07 19 00-0679 LF 7" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.83 0.05 0.12	4.72
22 07 19 00-0680 LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.45 0.05 0.13	4.83
22 07 19 00-0681 LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.93 0.05 0.13	4.91
22 07 19 00-0682 LF 8" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.61 0.06 0.14	5.00
22 07 19 00-0683 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.26 0.06 0.15	5.08
22 07 19 00-0684 LF 9" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.11 0.06 0.16	5.21
22 07 19 00-0685 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.83 0.07 0.17	5.30
22 07 19 00-0686 LF 10" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.54 0.07 0.17	5.39
22 07 19 00-0687 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.27 0.07 0.18	5.49
22 07 19 00-0688 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.22 0.08 0.19	5.64
22 07 19 00-0689 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.00 0.08 0.20	5.75
22 07 19 00-0690 LF 12" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.78 0.08 0.21	5.86
22 07 19 00-0691 LF 12-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.82 0.09 0.22	6.04
22 07 19 00-0692 LF 13" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.40 0.09 0.22	6.11
22 07 19 00-0693 LF 14" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.33 0.10 0.24	6.17
22 07 19 00-0694 LF 15" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.51 0.10 0.26	6.30
22 07 19 00-0695 LF 16" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.47 0.11 0.28	6.36
22 07 19 00-0696 LF 17" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.67 0.12 0.29	6.50
22 07 19 00-0697 LF 18" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.41 0.12 0.30	6.57
22 07 19 00-0698 LF 19" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.89 0.13 0.33	6.71
22 07 19 00-0699 LF 20" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.88 0.14 0.34	6.79
22 07 19 00-0700 LF 21" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.17 0.14 0.36	6.94
22 07 19 00-0701 LF 22" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.15 0.15 0.38	7.02
22 07 19 00-0702 LF 23" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.52 0.16 0.39	7.19

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0703 LF 24" ID, 0.020" Aluminum Insulation Jacketing	45.53	7.28
For Stucco Embossed, Add	0.16	
For Corrugated, Add	0.41	
22 07 19 00-0704 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0705 LF 1/2" ID, 0.024" Aluminum Insulation Jacketing	12.65	3.00
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0706 LF 3/4" ID, 0.024" Aluminum Insulation Jacketing	13.13	3.07
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0707 LF 1" ID, 0.024" Aluminum Insulation Jacketing	13.62	3.14
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0708 LF 1-1/4" ID, 0.024" Aluminum Insulation Jacketing	14.12	3.22
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0709 LF 1-1/2" ID, 0.024" Aluminum Insulation Jacketing	14.52	3.26
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.04	
22 07 19 00-0710 LF 1-3/4" ID, 0.024" Aluminum Insulation Jacketing	14.92	3.31
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0711 LF 2" ID, 0.024" Aluminum Insulation Jacketing	15.39	3.38
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0712 LF 2-1/4" ID, 0.024" Aluminum Insulation Jacketing	15.87	3.45
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0713 LF 2-1/2" ID, 0.024" Aluminum Insulation Jacketing	16.38	3.52
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0714 LF 2-3/4" ID, 0.024" Aluminum Insulation Jacketing	16.81	3.58
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0715 LF 3" ID, 0.024" Aluminum Insulation Jacketing	17.35	3.66
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0716 LF 3-1/4" ID, 0.024" Aluminum Insulation Jacketing	17.89	3.74
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0717 LF 3-1/2" ID, 0.024" Aluminum Insulation Jacketing	18.44	3.83
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0718 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing	18.91	3.90
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0719 LF 4" ID, 0.024" Aluminum Insulation Jacketing	19.48	3.99
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0720 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing	20.08	4.09
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0721 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing	20.72	4.19
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0722 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing	21.25	4.27
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0723 LF 5" ID, 0.024" Aluminum Insulation Jacketing	21.90	4.40
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0724 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing	22.58	4.52
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.11	
22 07 19 00-0725 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing	23.17	4.61
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0726 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing	23.92	4.74
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0727 LF 6" ID, 0.024" Aluminum Insulation Jacketing	24.68	4.88
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0728 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing	25.16	4.96
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0729 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing	25.68	5.03
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	
22 07 19 00-0730 LF 7" ID, 0.024" Aluminum Insulation Jacketing	26.52	5.15
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0731 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.22 0.06 0.15	5.27
22 07 19 00-0732 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.76 0.06 0.16	5.36
22 07 19 00-0733 LF 8" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.52 0.07 0.17	5.45
22 07 19 00-0734 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.27 0.07 0.18	5.54
22 07 19 00-0735 LF 9" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.24 0.08 0.19	5.68
22 07 19 00-0736 LF 9-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.06 0.08 0.20	5.78
22 07 19 00-0737 LF 10" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.88 0.08 0.21	5.88
22 07 19 00-0738 LF 10-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.70 0.09 0.22	5.99
22 07 19 00-0739 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.77 0.09 0.23	6.16
22 07 19 00-0740 LF 11-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.66 0.10 0.24	6.28
22 07 19 00-0741 LF 12" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.55 0.10 0.25	6.40
22 07 19 00-0742 LF 12-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.72 0.10 0.26	6.59
22 07 19 00-0743 LF 13" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.38 0.11 0.27	6.66
22 07 19 00-0744 LF 14" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.48 0.12 0.29	6.73
22 07 19 00-0745 LF 15" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.84 0.12 0.31	6.86
22 07 19 00-0746 LF 16" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.95 0.13 0.33	6.94
22 07 19 00-0747 LF 17" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.34 0.14 0.35	7.08
22 07 19 00-0748 LF 18" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.20 0.15 0.36	7.16
22 07 19 00-0749 LF 19" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.90 0.16 0.39	7.32
22 07 19 00-0750 LF 20" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.06 0.16 0.41	7.40
22 07 19 00-0751 LF 21" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	47.52 0.17 0.43	7.57
22 07 19 00-0752 LF 22" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.68 0.18 0.45	7.66
22 07 19 00-0753 LF 23" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	50.23 0.19 0.47	7.85
22 07 19 00-0754 LF 24" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.40 0.20 0.49	7.94
22 07 19 00-0755 32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0756 LF 1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.18 0.01 0.02	3.32
22 07 19 00-0757 LF 3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.76 0.01 0.03	3.40
22 07 19 00-0758 LF 1" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.35 0.01 0.04	3.48

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0759	LF	1-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.95 0.02 0.04	3.56
22 07 19 00-0760	LF	1-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.43 0.02 0.05	3.61
22 07 19 00-0761	LF	1-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.92 0.02 0.06	3.67
22 07 19 00-0762	LF	2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.50 0.03 0.06	3.74
22 07 19 00-0763	LF	2-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.07 0.03 0.07	3.82
22 07 19 00-0764	LF	2-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.69 0.03 0.08	3.90
22 07 19 00-0765	LF	2-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.22 0.03 0.08	3.97
22 07 19 00-0766	LF	3" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.87 0.04 0.09	4.05
22 07 19 00-0767	LF	3-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.51 0.04 0.10	4.15
22 07 19 00-0768	LF	3-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.17 0.04 0.10	4.24
22 07 19 00-0769	LF	3-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.74 0.04 0.11	4.32
22 07 19 00-0770	LF	4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.41 0.05 0.12	4.43
22 07 19 00-0771	LF	4-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.12 0.05 0.12	4.54
22 07 19 00-0772	LF	4-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.89 0.05 0.13	4.66
22 07 19 00-0773	LF	4-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.52 0.06 0.14	4.75
22 07 19 00-0774	LF	5" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.29 0.06 0.15	4.87
22 07 19 00-0775	LF	5-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.09 0.06 0.15	5.00
22 07 19 00-0776	LF	5-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.78 0.06 0.16	5.11
22 07 19 00-0777	LF	5-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.67 0.07 0.17	5.25
22 07 19 00-0778	LF	6" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.56 0.07 0.17	5.41
22 07 19 00-0779	LF	6-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.16 0.07 0.18	5.49
22 07 19 00-0780	LF	6-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.75 0.07 0.19	5.57
22 07 19 00-0781	LF	7" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.77 0.08 0.20	5.70
22 07 19 00-0782	LF	7-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.59 0.08 0.21	5.84
22 07 19 00-0783	LF	7-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.24 0.08 0.21	5.93
22 07 19 00-0784	LF	8" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.18 0.09 0.23	6.04
22 07 19 00-0785	LF	8-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.11 0.10 0.24	6.14
22 07 19 00-0786	LF	9" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.28 0.10 0.25	6.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0787 LF 9-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.29 0.11 0.27	6.41
22 07 19 00-0788 LF 10" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.28 0.11 0.28	6.52
22 07 19 00-0789 LF 10-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.28 0.12 0.29	6.64
22 07 19 00-0790 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.58 0.12 0.31	6.83
22 07 19 00-0791 LF 11-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.65 0.13 0.32	6.96
22 07 19 00-0792 LF 12" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.73 0.13 0.33	7.09
22 07 19 00-0793 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.12 0.14 0.35	7.30
22 07 19 00-0794 LF 13" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.95 0.14 0.36	7.38
22 07 19 00-0795 LF 14" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.35 0.16 0.39	7.45
22 07 19 00-0796 LF 15" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	47.05 0.17 0.42	7.60
22 07 19 00-0797 LF 16" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.46 0.18 0.44	7.68
22 07 19 00-0798 LF 17" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	50.19 0.19 0.47	7.86
22 07 19 00-0799 LF 18" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.27 0.20 0.49	7.94
22 07 19 00-0800 LF 19" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.42 0.21 0.52	8.12
22 07 19 00-0801 LF 20" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	54.89 0.22 0.55	8.21
22 07 19 00-0802 LF 21" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	56.71 0.23 0.58	8.40
22 07 19 00-0803 LF 22" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	58.17 0.24 0.61	8.49
22 07 19 00-0804 LF 23" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	60.08 0.25 0.63	8.69
22 07 19 00-0805 LF 24" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	61.56 0.26 0.66	8.80
22 07 19 00-0806 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0807 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.41 0.01 0.03	3.82
22 07 19 00-0808 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.10 0.01 0.04	3.91
22 07 19 00-0809 LF 1" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.80 0.02 0.05	4.00
22 07 19 00-0810 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.53 0.02 0.05	4.09
22 07 19 00-0811 LF 1-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.11 0.02 0.06	4.16
22 07 19 00-0812 LF 1-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.70 0.03 0.07	4.22
22 07 19 00-0813 LF 2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.39 0.03 0.08	4.30
22 07 19 00-0814 LF 2-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.07 0.03 0.09	4.40

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0815 LF 2-1/2" ID, 0.040" Aluminum Insulation Jacketing	21.83	4.50
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0816 LF 2-3/4" ID, 0.040" Aluminum Insulation Jacketing	22.46	4.57
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0817 LF 3" ID, 0.040" Aluminum Insulation Jacketing	23.24	4.67
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.11	
22 07 19 00-0818 LF 3-1/4" ID, 0.040" Aluminum Insulation Jacketing	24.01	4.78
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0819 LF 3-1/2" ID, 0.040" Aluminum Insulation Jacketing	24.78	4.89
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0820 LF 3-3/4" ID, 0.040" Aluminum Insulation Jacketing	25.46	4.97
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	
22 07 19 00-0821 LF 4" ID, 0.040" Aluminum Insulation Jacketing	26.28	5.09
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0822 LF 4-1/4" ID, 0.040" Aluminum Insulation Jacketing	27.12	5.22
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.16	
22 07 19 00-0823 LF 4-1/2" ID, 0.040" Aluminum Insulation Jacketing	28.03	5.35
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.17	
22 07 19 00-0824 LF 4-3/4" ID, 0.040" Aluminum Insulation Jacketing	28.79	5.45
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.17	
22 07 19 00-0825 LF 5" ID, 0.040" Aluminum Insulation Jacketing	29.71	5.60
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.18	
22 07 19 00-0826 LF 5-1/4" ID, 0.040" Aluminum Insulation Jacketing	30.65	5.75
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.19	
22 07 19 00-0827 LF 5-1/2" ID, 0.040" Aluminum Insulation Jacketing	31.48	5.87
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.20	
22 07 19 00-0828 LF 5-3/4" ID, 0.040" Aluminum Insulation Jacketing	32.53	6.04
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.21	
22 07 19 00-0829 LF 6" ID, 0.040" Aluminum Insulation Jacketing	33.57	6.23
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.22	
22 07 19 00-0830 LF 6-1/4" ID, 0.040" Aluminum Insulation Jacketing	34.29	6.32
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.23	
22 07 19 00-0831 LF 6-1/2" ID, 0.040" Aluminum Insulation Jacketing	35.01	6.42
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.23	
22 07 19 00-0832 LF 7" ID, 0.040" Aluminum Insulation Jacketing	36.23	6.57
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.25	
22 07 19 00-0833 LF 7-1/4" ID, 0.040" Aluminum Insulation Jacketing	37.21	6.72
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.26	
22 07 19 00-0834 LF 7-1/2" ID, 0.040" Aluminum Insulation Jacketing	37.98	6.83
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.27	
22 07 19 00-0835 LF 8" ID, 0.040" Aluminum Insulation Jacketing	39.12	6.95
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.28	
22 07 19 00-0836 LF 8-1/2" ID, 0.040" Aluminum Insulation Jacketing	40.24	7.06
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.30	
22 07 19 00-0837 LF 9" ID, 0.040" Aluminum Insulation Jacketing	41.64	7.24
For Stucco Embossed, Add	0.13	
For Corrugated, Add	0.32	
22 07 19 00-0838 LF 9-1/2" ID, 0.040" Aluminum Insulation Jacketing	42.86	7.37
For Stucco Embossed, Add	0.13	
For Corrugated, Add	0.33	
22 07 19 00-0839 LF 10" ID, 0.040" Aluminum Insulation Jacketing	44.05	7.50
For Stucco Embossed, Add	0.14	
For Corrugated, Add	0.35	
22 07 19 00-0840 LF 10-1/2" ID, 0.040" Aluminum Insulation Jacketing	45.28	7.63
For Stucco Embossed, Add	0.15	
For Corrugated, Add	0.37	
22 07 19 00-0841 LF 11" ID, 0.0106 Aluminum Insulation Jacketing	46.80	7.86
For Stucco Embossed, Add	0.15	
For Corrugated, Add	0.38	
22 07 19 00-0842 LF 11-1/2" ID, 0.040" Aluminum Insulation Jacketing	48.11	8.01
For Stucco Embossed, Add	0.16	
For Corrugated, Add	0.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0843 LF 12" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	49.41 0.17 0.42	8.16
22 07 19 00-0844 LF 12-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.05 0.17 0.44	8.40
22 07 19 00-0845 LF 13" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	52.07 0.18 0.45	8.49
22 07 19 00-0846 LF 14" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.80 0.20 0.49	8.57
22 07 19 00-0847 LF 15" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	55.86 0.21 0.52	8.75
22 07 19 00-0848 LF 16" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	57.60 0.22 0.56	8.84
22 07 19 00-0849 LF 17" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	59.71 0.24 0.59	9.03
22 07 19 00-0850 LF 18" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	61.02 0.24 0.61	9.13
22 07 19 00-0851 LF 19" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	63.65 0.26 0.66	9.33
22 07 19 00-0852 LF 20" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	65.44 0.28 0.69	9.44
22 07 19 00-0853 LF 21" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	67.65 0.29 0.73	9.66
22 07 19 00-0854 LF 22" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	69.45 0.30 0.76	9.77
22 07 19 00-0855 LF 23" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	71.76 0.32 0.79	10.00
22 07 19 00-0856 LF 24" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	73.58 0.33 0.83	10.12
22 07 19 00-0857 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0595)		
22 07 19 00-0858 EA 1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	22.34	3.92
22 07 19 00-0859 EA 1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	22.92	4.06
22 07 19 00-0860 EA 2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	25.27	4.22
22 07 19 00-0861 EA 2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	25.53	4.29
22 07 19 00-0862 EA 2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	25.80	4.36
22 07 19 00-0863 EA 2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	26.23	4.47
22 07 19 00-0864 EA 3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	27.39	4.58
22 07 19 00-0865 EA 3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	27.86	4.70
22 07 19 00-0866 EA 3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.83	4.78
22 07 19 00-0867 EA 3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	30.45	4.86
22 07 19 00-0868 EA 4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	31.49	4.99
22 07 19 00-0869 EA 4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.19	5.09
22 07 19 00-0870 EA 4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.57	5.18
22 07 19 00-0871 EA 4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.97	5.28
22 07 19 00-0872 EA 5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	34.88	5.38
22 07 19 00-0873 EA 5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	37.37	5.49
22 07 19 00-0874 EA 5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	41.83	5.66
22 07 19 00-0875 EA 5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	42.31	5.78
22 07 19 00-0876 EA 6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	40.25	5.96
22 07 19 00-0877 EA 6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	40.78	6.11
22 07 19 00-0878 EA 6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	44.96	6.32
22 07 19 00-0879 EA 7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	49.76	6.46
22 07 19 00-0880 EA 7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	50.07	6.54
22 07 19 00-0881 EA 7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	61.64	6.62
22 07 19 00-0882 EA 8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	53.01	6.70
22 07 19 00-0883 EA 8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	75.92	6.86
22 07 19 00-0884 EA 9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	76.62	7.04
22 07 19 00-0885 EA 9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	64.17	7.13
22 07 19 00-0886 EA 10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	64.56	7.22
22 07 19 00-0887 EA 10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	65.71	7.32
22 07 19 00-0888 EA 11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	66.10	7.42
22 07 19 00-0889 EA 11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	71.91	7.62
22 07 19 00-0890 EA 12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	72.34	7.73
22 07 19 00-0891 EA 12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	105.53	7.96
22 07 19 00-0892 EA 13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	106.01	8.08
22 07 19 00-0893 EA 14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	132.11	8.32
22 07 19 00-0894 EA 15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	137.64	8.58
22 07 19 00-0895 EA 16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	147.58	8.72

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0896 EA 2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	24.34	4.36
22 07 19 00-0897 EA 2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	24.77	4.47
22 07 19 00-0898 EA 3" ID, Aluminum 45 Degree Elbow Insulation Jacketing	26.13	4.58
22 07 19 00-0899 EA 3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	26.60	4.70
22 07 19 00-0900 EA 3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing	28.01	4.78
22 07 19 00-0901 EA 3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	28.35	4.86
22 07 19 00-0902 EA 4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	29.03	4.99
22 07 19 00-0903 EA 4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	30.68	5.09
22 07 19 00-0904 EA 4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	31.06	5.18
22 07 19 00-0905 EA 4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	31.46	5.28
22 07 19 00-0906 EA 5" ID, Aluminum 45 Degree Elbow Insulation Jacketing	33.67	5.38
22 07 19 00-0907 EA 5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	34.11	5.49
22 07 19 00-0908 EA 5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	35.37	5.66
22 07 19 00-0909 EA 6" ID, Aluminum 45 Degree Elbow Insulation Jacketing	36.61	5.96
22 07 19 00-0910 EA 6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	42.83	6.32
22 07 19 00-0911 EA 7" ID, Aluminum 45 Degree Elbow Insulation Jacketing	43.42	6.46
22 07 19 00-0912 EA 7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	44.20	6.62
22 07 19 00-0913 EA 8" ID, Aluminum 45 Degree Elbow Insulation Jacketing	44.52	6.70
22 07 19 00-0914 EA 8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	49.53	6.86
22 07 19 00-0915 EA 9" ID, Aluminum 45 Degree Elbow Insulation Jacketing	50.23	7.04
22 07 19 00-0916 EA 9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	59.16	7.13
22 07 19 00-0917 EA 10" ID, Aluminum 45 Degree Elbow Insulation Jacketing	59.55	7.22
22 07 19 00-0918 EA 10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	57.95	7.32
22 07 19 00-0919 EA 11" ID, Aluminum 45 Degree Elbow Insulation Jacketing	58.34	7.42
22 07 19 00-0920 EA 11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	64.93	7.62
22 07 19 00-0921 EA 12" ID, Aluminum 45 Degree Elbow Insulation Jacketing	65.36	7.73
22 07 19 00-0922 EA 13" ID, Aluminum 45 Degree Elbow Insulation Jacketing	72.71	8.08
22 07 19 00-0923 EA 14" ID, Aluminum 45 Degree Elbow Insulation Jacketing	82.86	8.32
22 07 19 00-0924 EA 15" ID, Aluminum 45 Degree Elbow Insulation Jacketing	110.70	8.58
22 07 19 00-0925 EA 16" ID, Aluminum 45 Degree Elbow Insulation Jacketing	117.67	8.72
22 07 19 00-0926 EA 17" ID, Aluminum 45 Degree Elbow Insulation Jacketing	116.28	8.86
22 07 19 00-0927 EA 18" ID, Aluminum 45 Degree Elbow Insulation Jacketing	128.24	9.00
22 07 19 00-0928 EA 19" ID, Aluminum 45 Degree Elbow Insulation Jacketing	149.27	9.15
22 07 19 00-0929 EA 20" ID, Aluminum 45 Degree Elbow Insulation Jacketing	146.18	9.30
22 07 19 00-0930 EA 21" ID, Aluminum 45 Degree Elbow Insulation Jacketing	155.49	9.46
22 07 19 00-0931 EA 2-1/2" ID, Aluminum Tee Insulation Jacketing	72.44	6.24
22 07 19 00-0932 EA 2-3/4" ID, Aluminum Tee Insulation Jacketing	73.02	6.39
22 07 19 00-0933 EA 3" ID, Aluminum Tee Insulation Jacketing	79.79	6.54
22 07 19 00-0934 EA 3-1/4" ID, Aluminum Tee Insulation Jacketing	80.42	6.70
22 07 19 00-0935 EA 3-1/2" ID Aluminum Tee Insulation Jacketing	83.67	6.86
22 07 19 00-0936 EA 4" ID, Aluminum Tee Insulation Jacketing	84.98	7.04
22 07 19 00-0937 EA 4-1/4" ID, Aluminum Tee Insulation Jacketing	89.01	7.22
22 07 19 00-0938 EA 4-1/2" ID, Aluminum Tee Insulation Jacketing	89.28	7.42
22 07 19 00-0939 EA 4-3/4" ID, Aluminum Tee Insulation Jacketing	90.11	7.62
22 07 19 00-0940 EA 5" ID, Aluminum Tee Insulation Jacketing	93.21	7.85
22 07 19 00-0941 EA 5-1/4" ID, Aluminum Tee Insulation Jacketing	94.14	8.08
22 07 19 00-0942 EA 5-1/2" ID, Aluminum Tee Insulation Jacketing	97.85	8.32
22 07 19 00-0943 EA 6" ID, Aluminum Tee Insulation Jacketing	98.89	8.58
22 07 19 00-0944 EA 6-1/2" ID, Aluminum Tee Insulation Jacketing	107.54	9.15
22 07 19 00-0945 EA 7" ID, Aluminum Tee Insulation Jacketing	108.80	9.46
22 07 19 00-0946 EA 7-1/2" ID, Aluminum Tee Insulation Jacketing	118.10	9.81
22 07 19 00-0947 EA 8" ID, Aluminum Tee Insulation Jacketing	119.54	10.17
22 07 19 00-0948 EA 8-1/2" ID, Aluminum Tee Insulation Jacketing	123.19	10.56
22 07 19 00-0949 EA 9" ID, Aluminum Tee Insulation Jacketing	124.88	10.98
22 07 19 00-0950 EA 9-1/2" ID, Aluminum Tee Insulation Jacketing	104.91	11.20
22 07 19 00-0951 EA 10" ID, Aluminum Tee Insulation Jacketing.....	105.84	11.44
22 07 19 00-0952 EA 10-1/2" ID, Aluminum Tee Insulation Jacketing.....	110.74	11.69
22 07 19 00-0953 EA 11" ID, Aluminum Tee Insulation Jacketing.....	111.76	11.94
22 07 19 00-0954 EA 11-1/2" ID, Aluminum Tee Insulation Jacketing	116.30	12.20
22 07 19 00-0955 EA 12" ID, Aluminum Tee Insulation Jacketing.....	117.41	12.48
22 07 19 00-0956 EA 13" ID, Aluminum Tee Insulation Jacketing.....	121.92	12.77
22 07 19 00-0957 EA 14" ID, Aluminum Tee Insulation Jacketing.....	126.62	13.08
22 07 19 00-0958 EA 15" ID, Aluminum Tee Insulation Jacketing.....	133.96	13.40
22 07 19 00-0959 EA 16" ID, Aluminum Tee Insulation Jacketing.....	137.32	13.73
22 07 19 00-0960 EA 17" ID, Aluminum Tee Insulation Jacketing.....	151.05	14.08
22 07 19 00-0961 EA 18" ID, Aluminum Tee Insulation Jacketing.....	156.22	14.45
22 07 19 00-0962 EA 19" ID, Aluminum Tee Insulation Jacketing.....	168.20	14.85
22 07 19 00-0963 EA 20" ID, Aluminum Tee Insulation Jacketing.....	172.22	15.26
22 07 19 00-0964 EA 22" ID, Aluminum Tee Insulation Jacketing.....	204.24	15.69
22 07 19 00-0965 EA 23" ID, Aluminum Tee Insulation Jacketing.....	210.01	16.15
22 07 19 00-0966 EA 24" ID, Aluminum Tee Insulation Jacketing.....	220.05	17.71

22 07 19 00-0967 Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0594)

22 07 19 00-0968 Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22
07 19 00-0967)

22 07 19 00-0969 SF 0.010" Stainless Steel Insulation Jacket With Bands	24.91	10.30
22 07 19 00-0970 SF 0.016" Stainless Steel Insulation Jacket With Bands	30.40	12.35



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 07 19 00-0971 10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)

22 07 19 00-0972	LF	2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	12.98	2.19
22 07 19 00-0973	LF	2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	13.52	2.24
22 07 19 00-0974	LF	3" ID, 0.010" Stainless Steel Insulation Jacketing	14.08	2.29
22 07 19 00-0975	LF	3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	14.66	2.33
22 07 19 00-0976	LF	3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	15.25	2.38
22 07 19 00-0977	LF	3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	15.83	2.44
22 07 19 00-0978	LF	4" ID, 0.010" Stainless Steel Insulation Jacketing	16.42	2.49
22 07 19 00-0979	LF	4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	17.02	2.55
22 07 19 00-0980	LF	4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	17.63	2.62
22 07 19 00-0981	LF	5" ID, 0.010" Stainless Steel Insulation Jacketing	18.91	2.75
22 07 19 00-0982	LF	5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	20.23	2.89
22 07 19 00-0983	LF	6" ID, 0.010" Stainless Steel Insulation Jacketing	21.61	3.05
22 07 19 00-0984	LF	6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	22.70	3.14
22 07 19 00-0985	LF	7" ID, 0.010" Stainless Steel Insulation Jacketing	23.82	3.23
22 07 19 00-0986	LF	7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	25.04	3.35
22 07 19 00-0987	LF	8" ID, 0.010" Stainless Steel Insulation Jacketing	26.03	3.41
22 07 19 00-0988	LF	8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	27.03	3.48
22 07 19 00-0989	LF	9" ID, 0.010" Stainless Steel Insulation Jacketing	28.05	3.54
22 07 19 00-0990	LF	9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	29.07	3.61
22 07 19 00-0991	LF	10" ID, 0.010" Stainless Steel Insulation Jacketing	30.11	3.68
22 07 19 00-0992	LF	10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	31.17	3.76
22 07 19 00-0993	LF	11" ID, 0.010" Stainless Steel Insulation Jacketing	32.22	3.84
22 07 19 00-0994	LF	12" ID, 0.010" Stainless Steel Insulation Jacketing	34.37	4.01
22 07 19 00-0995	LF	13" ID, 0.010" Stainless Steel Insulation Jacketing	36.48	4.16
22 07 19 00-0996	LF	14" ID, 0.010" Stainless Steel Insulation Jacketing	38.22	4.22

22 07 19 00-0997 16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)

22 07 19 00-0998	LF	2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	17.77	2.92
22 07 19 00-0999	LF	2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	18.55	2.98
22 07 19 00-1000	LF	3" ID, 0.016" Stainless Steel Insulation Jacketing	19.32	3.05
22 07 19 00-1001	LF	3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	20.14	3.11
22 07 19 00-1002	LF	3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	20.95	3.18
22 07 19 00-1003	LF	3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	21.77	3.25
22 07 19 00-1004	LF	4" ID, 0.016" Stainless Steel Insulation Jacketing	22.60	3.32
22 07 19 00-1005	LF	4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	23.45	3.40
22 07 19 00-1006	LF	4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	24.31	3.48
22 07 19 00-1007	LF	5" ID, 0.016" Stainless Steel Insulation Jacketing	26.09	3.65
22 07 19 00-1008	LF	5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	27.95	3.84
22 07 19 00-1009	LF	6" ID, 0.016" Stainless Steel Insulation Jacketing	29.87	4.05
22 07 19 00-1010	LF	6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	31.42	4.17
22 07 19 00-1011	LF	7" ID, 0.016" Stainless Steel Insulation Jacketing	33.00	4.29
22 07 19 00-1012	LF	7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	34.69	4.46
22 07 19 00-1013	LF	8" ID, 0.016" Stainless Steel Insulation Jacketing	36.10	4.54
22 07 19 00-1014	LF	8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	37.52	4.63
22 07 19 00-1015	LF	9" ID, 0.016" Stainless Steel Insulation Jacketing	38.98	4.71
22 07 19 00-1016	LF	9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	40.42	4.81
22 07 19 00-1017	LF	10" ID, 0.016" Stainless Steel Insulation Jacketing	41.88	4.90
22 07 19 00-1018	LF	10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	43.38	5.00
22 07 19 00-1019	LF	11" ID, 0.016" Stainless Steel Insulation Jacketing	44.88	5.11
22 07 19 00-1020	LF	12" ID, 0.016" Stainless Steel Insulation Jacketing	47.91	5.33
22 07 19 00-1021	LF	13" ID, 0.016" Stainless Steel Insulation Jacketing	50.89	5.53
22 07 19 00-1022	LF	14" ID, 0.016" Stainless Steel Insulation Jacketing	53.38	5.62

22 07 19 00-1023 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-0967)

22 07 19 00-1024	EA	2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	35.95	4.36
22 07 19 00-1025	EA	2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	36.38	4.47
22 07 19 00-1026	EA	3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	37.67	4.58
22 07 19 00-1027	EA	3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	38.14	4.70
22 07 19 00-1028	EA	3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	39.44	4.78
22 07 19 00-1029	EA	3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	40.94	4.86
22 07 19 00-1030	EA	4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	43.60	4.99
22 07 19 00-1031	EA	4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	51.75	5.09
22 07 19 00-1032	EA	4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	52.13	5.18
22 07 19 00-1033	EA	5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	53.66	5.38
22 07 19 00-1034	EA	5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	70.54	5.66
22 07 19 00-1035	EA	6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	76.46	5.96
22 07 19 00-1036	EA	6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	97.62	6.32
22 07 19 00-1037	EA	7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	98.21	6.46
22 07 19 00-1038	EA	7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	110.96	6.62
22 07 19 00-1039	EA	8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	111.96	6.86
22 07 19 00-1040	EA	8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	114.84	6.86
22 07 19 00-1041	EA	9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	161.07	7.04
22 07 19 00-1042	EA	9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	159.11	7.13
22 07 19 00-1043	EA	10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	159.50	7.22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 07 19 00-1044	EA	10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	185.54	7.32
22 07 19 00-1045	EA	11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	178.84	7.42
22 07 19 00-1046	EA	12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	200.28	7.73
22 07 19 00-1047	EA	13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	266.92	8.08
22 07 19 00-1048	EA	14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	269.48	8.32
22 07 19 00-1049	EA	2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	32.87	4.36
22 07 19 00-1050	EA	2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	33.30	4.47
22 07 19 00-1051	EA	3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	34.92	4.58
22 07 19 00-1052	EA	3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	35.39	4.70
22 07 19 00-1053	EA	3-1/2" ID Stainless Steel 45 Degree Elbow Insulation Jacketing	35.92	4.78
22 07 19 00-1054	EA	3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	36.26	4.86
22 07 19 00-1055	EA	4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	41.59	4.99
22 07 19 00-1056	EA	4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	50.68	5.09
22 07 19 00-1057	EA	4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	51.06	5.18
22 07 19 00-1058	EA	4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	51.46	5.28
22 07 19 00-1059	EA	5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	52.39	5.38
22 07 19 00-1060	EA	5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	53.50	5.66
22 07 19 00-1061	EA	6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	60.49	5.96
22 07 19 00-1062	EA	6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	61.86	6.32
22 07 19 00-1063	EA	7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	87.78	6.46
22 07 19 00-1064	EA	7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	89.68	6.62
22 07 19 00-1065	EA	8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	90.00	6.70
22 07 19 00-1066	EA	8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	101.43	6.86
22 07 19 00-1067	EA	9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	102.13	7.04
22 07 19 00-1068	EA	9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	115.37	7.13
22 07 19 00-1069	EA	10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	115.76	7.22
22 07 19 00-1070	EA	10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	133.66	7.32
22 07 19 00-1071	EA	11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	134.05	7.42
22 07 19 00-1072	EA	12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	144.29	7.73
22 07 19 00-1073	EA	13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	165.69	8.08

22 07 19 00-1074 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0594)

22 07 19 00-1075 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)

22 07 19 00-1076	LF	1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	9.57	2.03
22 07 19 00-1077	LF	2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.35	2.11
22 07 19 00-1078	LF	2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.05	2.19
22 07 19 00-1079	LF	3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.89	2.29
22 07 19 00-1080	LF	3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.65	2.38
22 07 19 00-1081	LF	4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.50	2.49
22 07 19 00-1082	LF	4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.38	2.62
22 07 19 00-1083	LF	5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.26	2.75
22 07 19 00-1084	LF	5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.26	2.89
22 07 19 00-1085	LF	6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.31	3.05
22 07 19 00-1086	LF	6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.08	3.14
22 07 19 00-1087	LF	7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.81	3.23
22 07 19 00-1088	LF	7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	19.76	3.35
22 07 19 00-1089	LF	8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.36	3.41
22 07 19 00-1090	LF	8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.04	3.48
22 07 19 00-1091	LF	9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.72	3.54
22 07 19 00-1092	LF	9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	22.42	3.61
22 07 19 00-1093	LF	10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.07	3.68
22 07 19 00-1094	LF	10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.79	3.76
22 07 19 00-1095	LF	11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	24.52	3.84
22 07 19 00-1096	LF	11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	25.26	3.92
22 07 19 00-1097	LF	12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	25.96	4.01
22 07 19 00-1098	LF	12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	26.80	4.09
22 07 19 00-1099	LF	13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	27.40	4.16
22 07 19 00-1100	LF	13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	27.82	4.16
22 07 19 00-1101	LF	14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	28.49	4.22
22 07 19 00-1102	LF	15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	29.59	4.29
22 07 19 00-1103	LF	16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	30.63	4.36
22 07 19 00-1104	LF	17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	31.74	4.43
22 07 19 00-1105	LF	18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	32.86	4.51
22 07 19 00-1106	LF	19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	33.95	4.58
22 07 19 00-1107	LF	20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	35.09	4.66
22 07 19 00-1108	LF	21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	36.18	4.74
22 07 19 00-1109	LF	22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	37.35	4.82
22 07 19 00-1110	LF	23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	38.46	4.90
22 07 19 00-1111	LF	24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	39.65	4.99
22 07 19 00-1112	LF	25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	40.85	5.09
22 07 19 00-1113	LF	26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	42.01	5.18
22 07 19 00-1114	LF	27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	43.24	5.28
22 07 19 00-1115	LF	28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	44.42	5.38
22 07 19 00-1116	LF	29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	45.69	5.49
22 07 19 00-1117	LF	30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	46.98	5.60

22 07 19 00-1118 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)

22 07 19 00-1119	LF	2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.24	2.11
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1120 LF 2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.18	2.19
22 07 19 00-1121 LF 3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.19	2.29
22 07 19 00-1122 LF 3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.14	2.38
22 07 19 00-1123 LF 4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.16	2.49
22 07 19 00-1124 LF 4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.23	2.62
22 07 19 00-1125 LF 5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.34	2.75
22 07 19 00-1126 LF 5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.52	2.89
22 07 19 00-1127 LF 6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.75	3.05
22 07 19 00-1128 LF 6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.70	3.14
22 07 19 00-1129 LF 7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	21.66	3.23
22 07 19 00-1130 LF 7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	22.79	3.35
22 07 19 00-1131 LF 8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	23.63	3.41
22 07 19 00-1132 LF 8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	24.48	3.48
22 07 19 00-1133 LF 9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	25.35	3.54
22 07 19 00-1134 LF 9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	26.22	3.61
22 07 19 00-1135 LF 10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	27.12	3.68
22 07 19 00-1136 LF 10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	28.01	3.76
22 07 19 00-1137 LF 11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	28.92	3.84
22 07 19 00-1138 LF 11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	29.84	3.92
22 07 19 00-1139 LF 12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	30.78	4.01
22 07 19 00-1140 LF 12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	31.79	4.09
22 07 19 00-1141 LF 13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	32.63	4.16
22 07 19 00-1142 LF 13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	33.23	4.16
22 07 19 00-1143 LF 14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	34.08	4.22
22 07 19 00-1144 LF 15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	35.53	4.29
22 07 19 00-1145 LF 16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	36.99	4.36
22 07 19 00-1146 LF 17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	38.46	4.43
22 07 19 00-1147 LF 18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	40.00	4.51
22 07 19 00-1148 LF 19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	41.50	4.58
22 07 19 00-1149 LF 20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	43.00	4.66
22 07 19 00-1150 LF 21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	44.51	4.74
22 07 19 00-1151 LF 22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	46.03	4.82
22 07 19 00-1152 LF 23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	47.56	4.90
22 07 19 00-1153 LF 24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	49.10	4.99
22 07 19 00-1154 LF 25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	50.72	5.09
22 07 19 00-1155 LF 26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	52.29	5.18
22 07 19 00-1156 LF 27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	53.88	5.28
22 07 19 00-1157 LF 28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	55.48	5.38
22 07 19 00-1158 LF 29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	57.11	5.49
22 07 19 00-1159 LF 30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	58.75	5.60

22 07 19 00-1160 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-

22 07 19 00-1161 EA 1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.54	4.06
22 07 19 00-1162 EA 2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	20.94	4.22
22 07 19 00-1163 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.68	4.29
22 07 19 00-1164 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	22.42	4.36
22 07 19 00-1165 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	23.27	4.47
22 07 19 00-1166 EA 3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	24.02	4.58
22 07 19 00-1167 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	25.42	4.74
22 07 19 00-1168 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	26.69	4.86
22 07 19 00-1169 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	29.13	4.99
22 07 19 00-1170 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	31.98	5.23
22 07 19 00-1171 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	34.87	5.49
22 07 19 00-1172 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	40.13	5.78
22 07 19 00-1173 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	52.77	6.11
22 07 19 00-1174 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	55.10	6.32
22 07 19 00-1175 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	63.24	6.46
22 07 19 00-1176 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	65.70	6.62
22 07 19 00-1177 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	77.94	6.86
22 07 19 00-1178 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	95.95	7.13
22 07 19 00-1179 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	104.96	7.42
22 07 19 00-1180 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	117.22	7.73
22 07 19 00-1181 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	141.24	8.08
22 07 19 00-1182 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	157.79	8.32
22 07 19 00-1183 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	168.10	8.58
22 07 19 00-1184 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	180.90	8.72
22 07 19 00-1185 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	197.45	8.86
22 07 19 00-1186 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	245.01	9.00
22 07 19 00-1187 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	320.35	9.15
22 07 19 00-1188 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	401.89	9.30
22 07 19 00-1189 EA 1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.54	4.06
22 07 19 00-1190 EA 2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	20.94	4.22
22 07 19 00-1191 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.68	4.29
22 07 19 00-1192 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	22.42	4.36
22 07 19 00-1193 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	23.27	4.47
22 07 19 00-1194 EA 3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	24.02	4.58
22 07 19 00-1195 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	25.42	4.74
22 07 19 00-1196 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	26.69	4.86
22 07 19 00-1197 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	29.13	4.99
22 07 19 00-1198 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	31.98	5.23



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1199	EA		5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	34.87	5.49
22 07 19 00-1200	EA		5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	40.13	5.78
22 07 19 00-1201	EA		6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	52.77	6.11
22 07 19 00-1202	EA		6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	55.10	6.32
22 07 19 00-1203	EA		7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	63.24	6.46
22 07 19 00-1204	EA		7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	65.70	6.62
22 07 19 00-1205	EA		8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	77.94	6.86
22 07 19 00-1206	EA		9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	95.95	7.13
22 07 19 00-1207	EA		10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	104.90	7.42
22 07 19 00-1208	EA		11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	113.89	7.73
22 07 19 00-1209	EA		12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	124.89	8.08
22 07 19 00-1210	EA		14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	139.06	8.32
22 07 19 00-1211	EA		15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	147.83	8.58
22 07 19 00-1212	EA		16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	164.49	8.72
22 07 19 00-1213	EA		17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	181.39	8.86
22 07 19 00-1214	EA		18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	214.39	9.00
22 07 19 00-1215	EA		19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	279.92	9.15
22 07 19 00-1216	EA		20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	312.82	9.30
22 07 19 00-1217	EA		1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	29.06	5.72
22 07 19 00-1218	EA		2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	30.38	5.84
22 07 19 00-1219	EA		2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	31.75	6.03
22 07 19 00-1220	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	33.28	6.24
22 07 19 00-1221	EA		2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	35.00	6.46
22 07 19 00-1222	EA		3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	36.71	6.70
22 07 19 00-1223	EA		3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	39.22	6.95
22 07 19 00-1224	EA		3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	41.87	7.22
22 07 19 00-1225	EA		4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	45.43	7.52
22 07 19 00-1226	EA		4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	50.47	7.85
22 07 19 00-1227	EA		5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	55.74	8.20
22 07 19 00-1228	EA		5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	65.37	8.72
22 07 19 00-1229	EA		6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	76.69	9.15
22 07 19 00-1230	EA		6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	86.82	9.30
22 07 19 00-1231	EA		7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	118.68	9.64
22 07 19 00-1232	EA		7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	128.55	10.17
22 07 19 00-1233	EA		8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	149.15	10.56
22 07 19 00-1234	EA		9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	169.98	10.98
22 07 19 00-1235	EA		10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	173.30	11.44
22 07 19 00-1236	EA		11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	188.43	11.69
22 07 19 00-1237	EA		12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	203.60	11.94
22 07 19 00-1238	EA		14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	218.92	12.20
22 07 19 00-1239	EA		15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	234.12	12.48
22 07 19 00-1240	EA		16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	249.49	12.77
22 07 19 00-1241	EA		17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	264.75	13.08
22 07 19 00-1242	EA		18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	287.43	13.40
22 07 19 00-1243	EA		19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	310.06	13.73
22 07 19 00-1244	EA		20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	337.44	14.08
22 07 19 00-1245	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	41.55	3.92
22 07 19 00-1246	EA		1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	41.55	3.92
22 07 19 00-1247	EA		1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	49.03	4.06
22 07 19 00-1248	EA		1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	49.03	4.06
22 07 19 00-1249	EA		2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	68.57	4.22
22 07 19 00-1250	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	74.95	4.40
22 07 19 00-1251	EA		3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	82.59	4.58
22 07 19 00-1252	EA		3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	93.48	4.78
22 07 19 00-1253	EA		4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	102.86	4.99
22 07 19 00-1254	EA		5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	125.01	5.49
22 07 19 00-1255	EA		6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	176.63	6.11
22 07 19 00-1256	EA		8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	193.23	6.86
22 07 19 00-1257	EA		10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	241.38	7.32
22 07 19 00-1258	EA		12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	337.33	8.08
22 07 19 00-1259	EA		14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	339.36	8.45
22 07 19 00-1260	EA		16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	450.43	8.72
22 07 19 00-1261	EA		18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	607.53	9.00
22 07 19 00-1262	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	38.70	3.92
22 07 19 00-1263	EA		1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	38.70	3.92
22 07 19 00-1264	EA		1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	45.58	4.06
22 07 19 00-1265	EA		1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	45.58	4.06
22 07 19 00-1266	EA		2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	62.92	4.22
22 07 19 00-1267	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	68.65	4.40
22 07 19 00-1268	EA		3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	75.69	4.58
22 07 19 00-1269	EA		3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	79.63	4.78
22 07 19 00-1270	EA		4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	93.70	4.99
22 07 19 00-1271	EA		5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	113.66	5.49
22 07 19 00-1272	EA		6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	159.92	6.11
22 07 19 00-1273	EA		8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	174.92	6.86
22 07 19 00-1274	EA		10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	218.07	7.32
22 07 19 00-1275	EA		12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	303.98	8.08
22 07 19 00-1276	EA		14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	387.16	8.45
22 07 19 00-1277	EA		16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	462.97	8.72
22 07 19 00-1278	EA		18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	541.29	9.00
22 07 19 00-1279	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	57.33	5.90



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1280	EA			1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	57.33	5.90
22 07 19 00-1281	EA			1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	66.98	6.11
22 07 19 00-1282	EA			1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	66.98	6.11
22 07 19 00-1283	EA			2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	92.38	6.32
22 07 19 00-1284	EA			2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	100.83	6.54
22 07 19 00-1285	EA			3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	111.00	6.86
22 07 19 00-1286	EA			3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	117.05	7.13
22 07 19 00-1287	EA			4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	138.19	7.52
22 07 19 00-1288	EA			5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	151.89	8.20
22 07 19 00-1289	EA			6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	212.79	9.15
22 07 19 00-1290	EA			8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	231.65	10.17
22 07 19 00-1291	EA			10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	319.70	10.98
22 07 19 00-1292	EA			12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	444.17	11.94
22 07 19 00-1293	EA			14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	529.90	12.77
22 07 19 00-1294	EA			16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	626.67	13.08
22 07 19 00-1295	EA			18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	686.34	13.40

22 10 Plumbing Piping ⁽²²⁾

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution ^(22 10)

22 11 16 Domestic Water Piping ^(22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks. See CSI section 23 21 13 00-0000 for black steel piping and fitting.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies ^(22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.

22 11 16 00-0002	LF	1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	22.34	5.42
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>				
				5.56
<i>For ASTM 120, Deduct</i>				
				-0.65
<i>For Work In Restricted Working Space, Add</i>				
				5.39
22 11 16 00-0003	LF	3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	24.47	5.82
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>				
				6.26
<i>For ASTM 120, Deduct</i>				
				-0.82
<i>For Work In Restricted Working Space, Add</i>				
				5.71
22 11 16 00-0004	LF	1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	27.64	6.37
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>				
				7.36
<i>For ASTM 120, Deduct</i>				
				-1.10
<i>For Work In Restricted Working Space, Add</i>				
				6.10
22 11 16 00-0005	LF	1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	32.06	6.64
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>				
				9.03
<i>For ASTM 120, Deduct</i>				
				-1.57
<i>For Work In Restricted Working Space, Add</i>				
				6.47
22 11 16 00-0006	LF	1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	34.53	7.86
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>				
				9.91
<i>For ASTM 120, Deduct</i>				
				-1.80
<i>For Work In Restricted Working Space, Add</i>				
				6.75
22 11 16 00-0007	LF	2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	41.66	9.48
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>				
				12.34
<i>For ASTM 120, Deduct</i>				
				-2.41
<i>For Work In Restricted Working Space, Add</i>				
				7.69
22 11 16 00-0008	LF	2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	60.75	11.24
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>				
				19.83
<i>For ASTM 120, Deduct</i>				
				-4.61
<i>For Work In Restricted Working Space, Add</i>				
				9.01
22 11 16 00-0009	LF	3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	74.58	15.04
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>				
				24.47
<i>For ASTM 120, Deduct</i>				
				-5.73
<i>For Work In Restricted Working Space, Add</i>				
				10.91

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0010	LF		4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	113.25 41.53 -11.33 11.33	16.16
22 11 16 00-0011	LF		5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	202.55 79.75 -23.54 13.68	20.65
22 11 16 00-0012	LF		6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	245.41 97.48 -29.04 15.54	24.42
22 11 16 00-0013			Galvanized Steel Pipe And Threaded Fittings <small>(22 11 16)</small> Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014			Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <small>(22 11 16 00-0013)</small> Note: ASTM A-53. Includes coupling. Welded pipe has a weld bead on the inside.		
22 11 16 00-0015	LF		1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	10.56 1.95 -0.35 2.46	5.42
22 11 16 00-0016	LF		3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	11.85 2.37 -0.47 2.62	5.82
22 11 16 00-0017	LF		1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	14.08 3.16 -0.69 2.84	6.37
22 11 16 00-0018	LF		1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.28 4.00 -0.94 3.01	6.64
22 11 16 00-0019	LF		1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	19.24 4.76 -1.12 3.53	7.86
22 11 16 00-0020	LF		2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.28 6.24 -1.50 4.28	9.48
22 11 16 00-0021	LF		2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	32.84 9.33 -2.39 5.08	11.24
22 11 16 00-0022	LF		3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	43.39 12.25 -3.12 6.77	15.04
22 11 16 00-0023	LF		4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	53.92 16.65 -4.44 7.29	16.16
22 11 16 00-0024	LF		5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	70.65 22.16 -5.96 9.28	20.65
22 11 16 00-0025	LF		6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	88.12 28.40 -7.73 10.97	24.42
22 11 16 00-0026	LF		8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	99.86 31.14 -8.35 13.25	29.52
22 11 16 00-0027			Seamless, Threaded And Coupled, Galvanized Steel Pipe <small>(22 11 16 00-0013)</small> Note: ASTM A-53. Includes coupling.		
22 11 16 00-0028	LF		1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	12.18 2.73 -0.60 2.46	5.42
22 11 16 00-0029	LF		3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	13.50 3.16 -0.71 2.62	5.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0030 LF 1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	15.00	6.37
For Schedule 80 Pipe, Add	3.60	
For ASTM 120, Deduct	-0.83	
For Work In Restricted Working Space, Add	2.84	
22 11 16 00-0031 LF 1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	16.99	6.64
For Schedule 80 Pipe, Add	4.34	
For ASTM 120, Deduct	-1.04	
For Work In Restricted Working Space, Add	3.01	
22 11 16 00-0032 LF 1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	19.72	7.86
For Schedule 80 Pipe, Add	4.99	
For ASTM 120, Deduct	-1.19	
For Work In Restricted Working Space, Add	3.53	
22 11 16 00-0033 LF 2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	23.30	9.48
For Schedule 80 Pipe, Add	5.77	
For ASTM 120, Deduct	-1.36	
For Work In Restricted Working Space, Add	4.28	
22 11 16 00-0034 LF 2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	32.07	11.24
For Schedule 80 Pipe, Add	8.96	
For ASTM 120, Deduct	-2.27	
For Work In Restricted Working Space, Add	5.08	
22 11 16 00-0035 LF 3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	41.08	15.04
For Schedule 80 Pipe, Add	11.14	
For ASTM 120, Deduct	-2.78	
For Work In Restricted Working Space, Add	6.77	
22 11 16 00-0036 LF 4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	50.75	16.16
For Schedule 80 Pipe, Add	15.13	
For ASTM 120, Deduct	-3.97	
For Work In Restricted Working Space, Add	7.29	
22 11 16 00-0037 LF 5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	65.44	20.65
For Schedule 80 Pipe, Add	19.66	
For ASTM 120, Deduct	-5.18	
For Work In Restricted Working Space, Add	9.28	
22 11 16 00-0038 LF 6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	80.74	24.42
For Schedule 80 Pipe, Add	24.85	
For ASTM 120, Deduct	-6.62	
For Work In Restricted Working Space, Add	10.97	
22 11 16 00-0039 Galvanized Malleable Iron 90 Degree Elbows (22 11 16 00-0013)		
22 11 16 00-0040 EA 1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	42.50	24.12
For 300 LB Rating, Add	23.83	
For ASTM 120, Deduct	-0.96	
For Work In Restricted Working Space, Add	10.84	
22 11 16 00-0041 EA 3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	48.26	26.97
For 300 LB Rating, Add	29.01	
For ASTM 120, Deduct	-1.17	
For Work In Restricted Working Space, Add	12.13	
22 11 16 00-0042 EA 1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	59.65	30.07
For 300 LB Rating, Add	51.98	
For ASTM 120, Deduct	-2.17	
For Work In Restricted Working Space, Add	13.55	
22 11 16 00-0043 EA 1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	74.02	34.15
For 300 LB Rating, Add	80.93	
For ASTM 120, Deduct	-3.44	
For Work In Restricted Working Space, Add	15.34	
22 11 16 00-0044 EA 1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	87.53	38.48
For 300 LB Rating, Add	105.05	
For ASTM 120, Deduct	-4.48	
For Work In Restricted Working Space, Add	17.30	
22 11 16 00-0045 EA 2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	122.18	48.91
For 300 LB Rating, Add	170.82	
For ASTM 120, Deduct	-7.34	
For Work In Restricted Working Space, Add	21.97	
22 11 16 00-0046 EA 2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	236.48	72.35
For 300 LB Rating, Add	442.01	
For ASTM 120, Deduct	-19.21	
For Work In Restricted Working Space, Add	32.52	
22 11 16 00-0047 EA 3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	353.80	95.11
For 300 LB Rating, Add	726.57	
For ASTM 120, Deduct	-31.68	
For Work In Restricted Working Space, Add	42.79	
22 11 16 00-0048 EA 4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	514.20	94.52
For 300 LB Rating, Add	1,274.87	
For ASTM 120, Deduct	-55.87	
For Work In Restricted Working Space, Add	42.52	
22 11 16 00-0049 EA 5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	1,756.38	98.65
For 300 LB Rating, Add	5,477.71	
For ASTM 120, Deduct	-241.27	
For Work In Restricted Working Space, Add	44.37	
22 11 16 00-0050 EA 6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	1,637.47	103.14
For 300 LB Rating, Add	5,050.93	
For ASTM 120, Deduct	-222.43	
For Work In Restricted Working Space, Add	46.39	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0051 EA 8", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	1,950.54	107.78
For 300 LB Rating, Add	6,092.13	
For ASTM 120, Deduct	-268.34	
For Work In Restricted Working Space, Add	48.48	
22 11 16 00-0052 Galvanized Malleable Iron Reducing 90 Degree Elbows (22 11 16 00-0013)		
22 11 16 00-0053 EA 3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	51.89	25.47
For ASTM 120, Deduct	-2.04	
For Work In Restricted Working Space, Add	11.49	
22 11 16 00-0054 EA 1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	60.25	28.58
For ASTM 120, Deduct	-2.62	
For Work In Restricted Working Space, Add	12.84	
22 11 16 00-0055 EA 1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	59.16	27.10
For ASTM 120, Deduct	-2.78	
For Work In Restricted Working Space, Add	12.19	
22 11 16 00-0056 EA 1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	77.42	32.11
For ASTM 120, Deduct	-4.39	
For Work In Restricted Working Space, Add	14.44	
22 11 16 00-0057 EA 1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	80.95	30.49
For ASTM 120, Deduct	-5.28	
For Work In Restricted Working Space, Add	13.73	
22 11 16 00-0058 EA 1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	80.89	29.13
For ASTM 120, Deduct	-5.59	
For Work In Restricted Working Space, Add	13.09	
22 11 16 00-0059 EA 1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	101.17	36.31
For ASTM 120, Deduct	-7.02	
For Work In Restricted Working Space, Add	16.31	
22 11 16 00-0060 EA 1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	98.20	34.28
For ASTM 120, Deduct	-7.02	
For Work In Restricted Working Space, Add	15.42	
22 11 16 00-0061 EA 1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	95.83	32.65
For ASTM 120, Deduct	-7.02	
For Work In Restricted Working Space, Add	14.71	
22 11 16 00-0062 EA 2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	120.10	43.63
For ASTM 120, Deduct	-8.20	
For Work In Restricted Working Space, Add	19.63	
22 11 16 00-0063 EA 2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	124.84	41.46
For ASTM 120, Deduct	-9.40	
For Work In Restricted Working Space, Add	18.65	
22 11 16 00-0064 EA 2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	124.21	39.43
For ASTM 120, Deduct	-9.75	
For Work In Restricted Working Space, Add	17.76	
22 11 16 00-0065 EA 2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	106.16	37.94
For ASTM 120, Deduct	-7.40	
For Work In Restricted Working Space, Add	17.05	
22 11 16 00-0066 EA 2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	276.07	60.56
For ASTM 120, Deduct	-27.79	
For Work In Restricted Working Space, Add	27.24	
22 11 16 00-0067 EA 2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	289.43	55.42
For ASTM 120, Deduct	-30.96	
For Work In Restricted Working Space, Add	24.91	
22 11 16 00-0068 EA 3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	462.22	83.73
For ASTM 120, Deduct	-50.51	
For Work In Restricted Working Space, Add	37.65	
22 11 16 00-0069 EA 3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	400.39	71.94
For ASTM 120, Deduct	-43.87	
For Work In Restricted Working Space, Add	32.38	
22 11 16 00-0070 EA 4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	896.79	89.90
For ASTM 120, Deduct	-114.30	
For Work In Restricted Working Space, Add	40.45	
22 11 16 00-0071 Galvanized Malleable Iron 45 Degree Elbow (22 11 16 00-0013)		
22 11 16 00-0072 EA 1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	43.63	24.12
For 300 LB Rating, Add	27.67	
For ASTM 120, Deduct	-1.13	
For Work In Restricted Working Space, Add	10.84	
22 11 16 00-0073 EA 3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	51.22	26.97
For 300 LB Rating, Add	39.08	
For ASTM 120, Deduct	-1.62	
For Work In Restricted Working Space, Add	12.13	
22 11 16 00-0074 EA 1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	57.33	30.07
For 300 LB Rating, Add	44.09	
For ASTM 120, Deduct	-1.83	
For Work In Restricted Working Space, Add	13.55	
22 11 16 00-0075 EA 1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	73.86	34.15
For 300 LB Rating, Add	80.38	
For ASTM 120, Deduct	-3.41	
For Work In Restricted Working Space, Add	15.34	
22 11 16 00-0076 EA 1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	84.36	38.48
For 300 LB Rating, Add	94.27	
For ASTM 120, Deduct	-4.01	
For Work In Restricted Working Space, Add	17.30	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0077	EA		2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	112.76	48.91
			<i>For 300 LB Rating, Add</i>	138.80	
			<i>For ASTM 120, Deduct</i>	-5.93	
			<i>For Work In Restricted Working Space, Add</i>	21.97	
22 11 16 00-0078	EA		2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	245.92	72.35
			<i>For 300 LB Rating, Add</i>	474.11	
			<i>For ASTM 120, Deduct</i>	-20.63	
			<i>For Work In Restricted Working Space, Add</i>	32.52	
22 11 16 00-0079	EA		3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	342.65	95.11
			<i>For 300 LB Rating, Add</i>	688.66	
			<i>For ASTM 120, Deduct</i>	-30.00	
			<i>For Work In Restricted Working Space, Add</i>	42.79	
22 11 16 00-0080	EA		4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	477.09	94.52
			<i>For 300 LB Rating, Add</i>	1,148.69	
			<i>For ASTM 120, Deduct</i>	-50.30	
			<i>For Work In Restricted Working Space, Add</i>	42.52	
22 11 16 00-0081	EA		5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,502.97	98.65
			<i>For 300 LB Rating, Add</i>	4,616.11	
			<i>For ASTM 120, Deduct</i>	-203.26	
			<i>For Work In Restricted Working Space, Add</i>	44.37	
22 11 16 00-0082	EA		6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,788.53	103.14
			<i>For 300 LB Rating, Add</i>	5,564.54	
			<i>For ASTM 120, Deduct</i>	-245.09	
			<i>For Work In Restricted Working Space, Add</i>	46.39	
22 11 16 00-0083	EA		8", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	2,129.96	107.78
			<i>For 300 LB Rating, Add</i>	6,702.15	
			<i>For ASTM 120, Deduct</i>	-295.26	
			<i>For Work In Restricted Working Space, Add</i>	48.48	
22 11 16 00-0084 Galvanized Malleable Iron Tees (22 11 16 00-0013)					
22 11 16 00-0085	EA		1/2", 150 LB, Galvanized Malleable Iron Tee	53.41	30.07
			<i>For 300 LB Rating, Add</i>	30.76	
			<i>For ASTM 120, Deduct</i>	-1.24	
			<i>For Work In Restricted Working Space, Add</i>	13.55	
22 11 16 00-0086	EA		3/4", 150 LB, Galvanized Malleable Iron Tee	65.72	34.82
			<i>For 300 LB Rating, Add</i>	49.40	
			<i>For ASTM 120, Deduct</i>	-2.04	
			<i>For Work In Restricted Working Space, Add</i>	15.63	
22 11 16 00-0087	EA		1", 150 LB, Galvanized Malleable Iron Tee	83.58	41.06
			<i>For 300 LB Rating, Add</i>	78.49	
			<i>For ASTM 120, Deduct</i>	-3.30	
			<i>For Work In Restricted Working Space, Add</i>	18.47	
22 11 16 00-0088	EA		1-1/4", 150 LB, Galvanized Malleable Iron Tee	108.14	48.91
			<i>For 300 LB Rating, Add</i>	123.09	
			<i>For ASTM 120, Deduct</i>	-5.24	
			<i>For Work In Restricted Working Space, Add</i>	21.97	
22 11 16 00-0089	EA		1-1/2", 150 LB, Galvanized Malleable Iron Tee	130.80	58.26
			<i>For 300 LB Rating, Add</i>	152.77	
			<i>For ASTM 120, Deduct</i>	-6.51	
			<i>For Work In Restricted Working Space, Add</i>	26.22	
22 11 16 00-0090	EA		2", 150 LB, Galvanized Malleable Iron Tee	178.92	72.35
			<i>For 300 LB Rating, Add</i>	246.31	
			<i>For ASTM 120, Deduct</i>	-10.58	
			<i>For Work In Restricted Working Space, Add</i>	32.52	
22 11 16 00-0091	EA		2-1/2", 150 LB, Galvanized Malleable Iron Tee	316.40	78.58
			<i>For 300 LB Rating, Add</i>	682.24	
			<i>For ASTM 120, Deduct</i>	-29.79	
			<i>For Work In Restricted Working Space, Add</i>	35.35	
22 11 16 00-0092	EA		3", 150 LB, Galvanized Malleable Iron Tee	375.49	95.11
			<i>For 300 LB Rating, Add</i>	800.32	
			<i>For ASTM 120, Deduct</i>	-34.93	
			<i>For Work In Restricted Working Space, Add</i>	42.79	
22 11 16 00-0093	EA		4", 150 LB, Galvanized Malleable Iron Tee	729.93	119.43
			<i>For 300 LB Rating, Add</i>	1,883.77	
			<i>For ASTM 120, Deduct</i>	-82.63	
			<i>For Work In Restricted Working Space, Add</i>	53.71	
22 11 16 00-0094	EA		5", 150 LB, Galvanized Malleable Iron Tee	1,944.29	141.78
			<i>For 300 LB Rating, Add</i>	5,900.47	
			<i>For ASTM 120, Deduct</i>	-259.75	
			<i>For Work In Restricted Working Space, Add</i>	63.78	
22 11 16 00-0095	EA		6", 150 LB, Galvanized Malleable Iron Tee	2,207.12	162.07
			<i>For 300 LB Rating, Add</i>	6,692.62	
			<i>For ASTM 120, Deduct</i>	-294.62	
			<i>For Work In Restricted Working Space, Add</i>	72.90	
22 11 16 00-0096	EA		8", 150 LB, Galvanized Malleable Iron Tee	2,625.33	192.44
			<i>For 300 LB Rating, Add</i>	7,952.21	
			<i>For ASTM 120, Deduct</i>	-350.06	
			<i>For Work In Restricted Working Space, Add</i>	87.48	
22 11 16 00-0097 Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)					

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0098 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	64.34	30.07
For 300 LB Rating, Add	67.92	
For ASTM 120, Deduct	-2.88	
For Work In Restricted Working Space, Add	13.55	
22 11 16 00-0099 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	71.02	34.82
For 300 LB Rating, Add	67.42	
For ASTM 120, Deduct	-2.84	
For Work In Restricted Working Space, Add	15.63	
22 11 16 00-0100 EA 1", 150 LB, Galvanized Malleable Iron Reducing Tee.....	88.15	41.06
For 300 LB Rating, Add	94.03	
For ASTM 120, Deduct	-3.99	
For Work In Restricted Working Space, Add	18.47	
22 11 16 00-0101 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	114.44	48.91
For 300 LB Rating, Add	144.51	
For ASTM 120, Deduct	-6.18	
For Work In Restricted Working Space, Add	21.97	
22 11 16 00-0102 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	138.31	58.26
For 300 LB Rating, Add	178.30	
For ASTM 120, Deduct	-7.64	
For Work In Restricted Working Space, Add	26.22	
22 11 16 00-0103 EA 2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	182.70	72.35
For 300 LB Rating, Add	259.16	
For ASTM 120, Deduct	-11.15	
For Work In Restricted Working Space, Add	32.52	
22 11 16 00-0104 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	380.64	78.85
For 300 LB Rating, Add	899.45	
For ASTM 120, Deduct	-39.37	
For Work In Restricted Working Space, Add	35.45	
22 11 16 00-0105 EA 3", 150 LB, Galvanized Malleable Iron Reducing Tee.....	485.26	96.61
For 300 LB Rating, Add	1,166.02	
For ASTM 120, Deduct	-51.06	
For Work In Restricted Working Space, Add	43.46	
22 11 16 00-0106 EA 4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	1,165.79	119.43
For 300 LB Rating, Add	3,365.69	
For ASTM 120, Deduct	-148.01	
For Work In Restricted Working Space, Add	53.71	
22 11 16 00-0107 EA 5", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,500.78	141.78
For 300 LB Rating, Add	7,792.53	
For ASTM 120, Deduct	-343.23	
For Work In Restricted Working Space, Add	63.78	
22 11 16 00-0108 EA 6", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,838.96	162.07
For 300 LB Rating, Add	8,840.88	
For ASTM 120, Deduct	-389.40	
For Work In Restricted Working Space, Add	72.90	
22 11 16 00-0109 EA 8", 150 LB, Galvanized Malleable Iron Reducing Tee.....	3,409.50	186.11
For 300 LB Rating, Add	10,659.00	
For ASTM 120, Deduct	-469.51	
For Work In Restricted Working Space, Add	83.83	
22 11 16 00-0110 Galvanized Malleable Iron Couplings (22 11 16 00-0013)		
22 11 16 00-0111 EA 1/2", 150 LB, Galvanized Malleable Iron Coupling.....	42.42	24.12
For 300 LB Rating, Add	23.55	
For ASTM 120, Deduct	-0.94	
For Work In Restricted Working Space, Add	10.84	
22 11 16 00-0112 EA 3/4", 150 LB, Galvanized Malleable Iron Coupling.....	47.69	26.97
For 300 LB Rating, Add	27.08	
For ASTM 120, Deduct	-1.09	
For Work In Restricted Working Space, Add	12.13	
22 11 16 00-0113 EA 1", 150 LB, Galvanized Malleable Iron Coupling.....	57.04	30.07
For 300 LB Rating, Add	43.10	
For ASTM 120, Deduct	-1.78	
For Work In Restricted Working Space, Add	13.55	
22 11 16 00-0114 EA 1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....	67.87	34.15
For 300 LB Rating, Add	60.02	
For ASTM 120, Deduct	-2.51	
For Work In Restricted Working Space, Add	15.34	
22 11 16 00-0115 EA 1-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	76.69	38.48
For 300 LB Rating, Add	68.20	
For ASTM 120, Deduct	-2.86	
For Work In Restricted Working Space, Add	17.30	
22 11 16 00-0116 EA 2", 150 LB, Galvanized Malleable Iron Coupling.....	101.07	48.91
For 300 LB Rating, Add	99.05	
For ASTM 120, Deduct	-4.18	
For Work In Restricted Working Space, Add	21.97	
22 11 16 00-0117 EA 2-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	193.61	72.35
For 300 LB Rating, Add	296.25	
For ASTM 120, Deduct	-12.78	
For Work In Restricted Working Space, Add	32.52	
22 11 16 00-0118 EA 3", 150 LB, Galvanized Malleable Iron Coupling.....	256.52	95.11
For 300 LB Rating, Add	395.82	
For ASTM 120, Deduct	-17.09	
For Work In Restricted Working Space, Add	42.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0119 EA 4", 150 LB, Galvanized Malleable Iron Coupling.....	383.64	94.52
<i>For 300 LB Rating, Add</i>	830.96	
<i>For ASTM 120, Deduct</i>	-36.29	
<i>For Work In Restricted Working Space, Add</i>	42.52	
22 11 16 00-0120 EA 5", 150 LB, Galvanized Malleable Iron Coupling.....	829.04	98.65
<i>For 300 LB Rating, Add</i>	2,324.75	
<i>For ASTM 120, Deduct</i>	-102.17	
<i>For Work In Restricted Working Space, Add</i>	44.37	
22 11 16 00-0121 EA 6", 150 LB, Galvanized Malleable Iron Coupling.....	930.63	103.14
<i>For 300 LB Rating, Add</i>	2,647.68	
<i>For ASTM 120, Deduct</i>	-116.40	
<i>For Work In Restricted Working Space, Add</i>	46.39	
22 11 16 00-0122 EA 8", 150 LB, Galvanized Malleable Iron Coupling.....	1,096.83	107.78
<i>For 300 LB Rating, Add</i>	3,189.51	
<i>For ASTM 120, Deduct</i>	-140.29	
<i>For Work In Restricted Working Space, Add</i>	48.48	
22 11 16 00-0123 Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)		
22 11 16 00-0124 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	43.76	24.12
<i>For 300 LB Rating, Add</i>	28.11	
<i>For ASTM 120, Deduct</i>	-1.14	
<i>For Work In Restricted Working Space, Add</i>	10.84	
22 11 16 00-0125 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	48.60	26.97
<i>For 300 LB Rating, Add</i>	30.17	
<i>For ASTM 120, Deduct</i>	-1.22	
<i>For Work In Restricted Working Space, Add</i>	12.13	
22 11 16 00-0126 EA 1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	58.76	30.07
<i>For 300 LB Rating, Add</i>	48.95	
<i>For ASTM 120, Deduct</i>	-2.04	
<i>For Work In Restricted Working Space, Add</i>	13.55	
22 11 16 00-0127 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling	68.70	34.15
<i>For 300 LB Rating, Add</i>	62.84	
<i>For ASTM 120, Deduct</i>	-2.64	
<i>For Work In Restricted Working Space, Add</i>	15.34	
22 11 16 00-0128 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling	80.32	38.48
<i>For 300 LB Rating, Add</i>	80.54	
<i>For ASTM 120, Deduct</i>	-3.40	
<i>For Work In Restricted Working Space, Add</i>	17.30	
22 11 16 00-0129 EA 2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	104.16	48.91
<i>For 300 LB Rating, Add</i>	109.56	
<i>For ASTM 120, Deduct</i>	-4.64	
<i>For Work In Restricted Working Space, Add</i>	21.97	
22 11 16 00-0130 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling	194.69	72.35
<i>For 300 LB Rating, Add</i>	299.92	
<i>For ASTM 120, Deduct</i>	-12.95	
<i>For Work In Restricted Working Space, Add</i>	32.52	
22 11 16 00-0131 EA 3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	253.29	95.11
<i>For 300 LB Rating, Add</i>	384.84	
<i>For ASTM 120, Deduct</i>	-16.60	
<i>For Work In Restricted Working Space, Add</i>	42.79	
22 11 16 00-0132 EA 4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	389.87	94.52
<i>For 300 LB Rating, Add</i>	852.15	
<i>For ASTM 120, Deduct</i>	-37.22	
<i>For Work In Restricted Working Space, Add</i>	42.52	
22 11 16 00-0133 EA 5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	864.89	98.65
<i>For 300 LB Rating, Add</i>	2,446.64	
<i>For ASTM 120, Deduct</i>	-107.55	
<i>For Work In Restricted Working Space, Add</i>	44.37	
22 11 16 00-0134 EA 6", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	971.47	103.14
<i>For 300 LB Rating, Add</i>	2,786.53	
<i>For ASTM 120, Deduct</i>	-122.53	
<i>For Work In Restricted Working Space, Add</i>	46.39	
22 11 16 00-0135 EA 8", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	1,146.42	107.78
<i>For 300 LB Rating, Add</i>	3,358.12	
<i>For ASTM 120, Deduct</i>	-147.72	
<i>For Work In Restricted Working Space, Add</i>	48.48	
22 11 16 00-0136 Galvanized Malleable Iron Caps (22 11 16 00-0013)		
22 11 16 00-0137 EA 1/2", 150 LB, Galvanized Malleable Iron Cap	19.24	11.24
<i>For 300 LB Rating, Add</i>	8.84	
<i>For ASTM 120, Deduct</i>	-0.35	
<i>For Work In Restricted Working Space, Add</i>	5.08	
22 11 16 00-0138 EA 3/4", 150 LB, Galvanized Malleable Iron Cap	21.24	12.06
<i>For 300 LB Rating, Add</i>	11.90	
<i>For ASTM 120, Deduct</i>	-0.48	
<i>For Work In Restricted Working Space, Add</i>	5.42	
22 11 16 00-0139 EA 1", 150 LB, Galvanized Malleable Iron Cap	24.79	13.95
<i>For 300 LB Rating, Add</i>	14.68	
<i>For ASTM 120, Deduct</i>	-0.59	
<i>For Work In Restricted Working Space, Add</i>	6.25	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0140 EA 1-1/4", 150 LB, Galvanized Malleable Iron Cap	27.06	14.63
For 300 LB Rating, Add	18.99	
For ASTM 120, Deduct	-0.78	
For Work In Restricted Working Space, Add	6.56	
22 11 16 00-0141 EA 1-1/2", 150 LB, Galvanized Malleable Iron Cap	26.73	14.63
For 300 LB Rating, Add	17.87	
For ASTM 120, Deduct	-0.73	
For Work In Restricted Working Space, Add	6.56	
22 11 16 00-0142 EA 2", 150 LB, Galvanized Malleable Iron Cap	39.56	19.37
For 300 LB Rating, Add	37.18	
For ASTM 120, Deduct	-1.56	
For Work In Restricted Working Space, Add	8.74	
22 11 16 00-0143 EA 2-1/2", 150 LB, Galvanized Malleable Iron Cap	59.51	24.12
For 300 LB Rating, Add	81.66	
For ASTM 120, Deduct	-3.51	
For Work In Restricted Working Space, Add	10.84	
22 11 16 00-0144 EA 3", 150 LB, Galvanized Malleable Iron Cap	76.98	29.13
For 300 LB Rating, Add	115.77	
For ASTM 120, Deduct	-4.99	
For Work In Restricted Working Space, Add	13.11	
22 11 16 00-0145 EA 4", 150 LB, Galvanized Malleable Iron Cap	110.82	32.43
For 300 LB Rating, Add	214.46	
For ASTM 120, Deduct	-9.33	
For Work In Restricted Working Space, Add	14.58	
22 11 16 00-0146 EA 5", 150 LB, Galvanized Malleable Iron Cap	267.30	40.58
For 300 LB Rating, Add	705.92	
For ASTM 120, Deduct	-30.98	
For Work In Restricted Working Space, Add	18.23	
22 11 16 00-0147 EA 6", 150 LB, Galvanized Malleable Iron Cap	332.70	48.23
For 300 LB Rating, Add	889.43	
For ASTM 120, Deduct	-39.05	
For Work In Restricted Working Space, Add	21.71	
22 11 16 00-0148 EA 8", 150 LB, Galvanized Malleable Iron Cap	418.15	53.89
For 300 LB Rating, Add	1,151.87	
For ASTM 120, Deduct	-50.60	
For Work In Restricted Working Space, Add	24.24	
22 11 16 00-0149 Galvanized Malleable Iron FIP Threaded, Unions (22 11 16 00-0013)		
22 11 16 00-0150 EA 1/2", 150 LB, Galvanized Malleable Iron Union	61.49	30.07
For Work In Restricted Working Space, Add	13.55	
22 11 16 00-0151 EA 3/4", 150 LB, Galvanized Malleable Iron Union	70.87	34.82
For Work In Restricted Working Space, Add	15.63	
22 11 16 00-0152 EA 1", 150 LB, Galvanized Malleable Iron Union	86.15	41.06
For Work In Restricted Working Space, Add	18.47	
22 11 16 00-0153 EA 1-1/4", 150 LB, Galvanized Malleable Iron Union	108.75	48.91
For Work In Restricted Working Space, Add	21.97	
22 11 16 00-0154 EA 1-1/2", 150 LB, Galvanized Malleable Iron Union	130.45	58.26
For Work In Restricted Working Space, Add	26.22	
22 11 16 00-0155 EA 2", 150 LB, Galvanized Malleable Iron Union	157.87	72.35
For Work In Restricted Working Space, Add	32.52	
22 11 16 00-0156 EA 2-1/2", 150 LB, Galvanized Malleable Iron Union	331.87	106.62
For Work In Restricted Working Space, Add	48.00	
22 11 16 00-0157 EA 3", 150 LB, Galvanized Malleable Iron Union	451.08	140.23
For Work In Restricted Working Space, Add	63.16	
22 11 16 00-0158 EA 1/2", 250 LB, Galvanized Malleable Iron Union	78.36	30.07
For Work In Restricted Working Space, Add	13.55	
22 11 16 00-0159 EA 3/4", 250 LB, Galvanized Malleable Iron Union	82.28	34.82
For Work In Restricted Working Space, Add	15.63	
22 11 16 00-0160 EA 1", 250 LB, Galvanized Malleable Iron Union	98.97	41.06
For Work In Restricted Working Space, Add	18.47	
22 11 16 00-0161 EA 1-1/4", 250 LB, Galvanized Malleable Iron Union	129.87	48.91
For Work In Restricted Working Space, Add	21.97	
22 11 16 00-0162 EA 1-1/2", 250 LB, Galvanized Malleable Iron Union	152.61	58.26
For Work In Restricted Working Space, Add	26.22	
22 11 16 00-0163 EA 2", 250 LB, Galvanized Malleable Iron Union	200.47	72.35
For Work In Restricted Working Space, Add	32.52	
22 11 16 00-0164 EA 2-1/2", 250 LB, Galvanized Malleable Iron Union	402.24	106.62
For Work In Restricted Working Space, Add	48.00	
22 11 16 00-0165 EA 3", 250 LB, Galvanized Malleable Iron Union	582.18	140.23
For Work In Restricted Working Space, Add	63.16	
22 11 16 00-0166 EA 4", 250 LB, Galvanized Malleable Iron Union	792.23	139.47
For Work In Restricted Working Space, Add	62.77	
22 11 16 00-0167 EA 1/2", 300 LB, Galvanized Malleable Iron Union	82.99	30.07
For Work In Restricted Working Space, Add	13.55	
22 11 16 00-0168 EA 3/4", 300 LB, Galvanized Malleable Iron Union	93.13	34.82
For Work In Restricted Working Space, Add	15.63	
22 11 16 00-0169 EA 1", 300 LB, Galvanized Malleable Iron Union	115.99	41.06
For Work In Restricted Working Space, Add	18.47	
22 11 16 00-0170 EA 1-1/4", 300 LB, Galvanized Malleable Iron Union	149.11	48.91
For Work In Restricted Working Space, Add	21.97	
22 11 16 00-0171 EA 1-1/2", 300 LB, Galvanized Malleable Iron Union	178.78	58.26
For Work In Restricted Working Space, Add	26.22	
22 11 16 00-0172 EA 2", 300 LB, Galvanized Malleable Iron Union	218.06	72.35
For Work In Restricted Working Space, Add	32.52	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0173	EA		2-1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	465.92 48.00	106.62
22 11 16 00-0174	EA		3", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	727.91 63.16	140.23
22 11 16 00-0175	EA		4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	1,506.84 62.77	139.47
22 11 16 00-0176			Galvanized Steel Nipples (22 11 16 00-0013) Note: ASTM A-53.		
22 11 16 00-0177	EA		3/8" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.91 2.92 -0.38 5.81	12.87
22 11 16 00-0178	EA		1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.42 2.36 -0.31 5.81	12.87
22 11 16 00-0179	EA		3/4" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.86 2.86 -0.38 5.81	12.87
22 11 16 00-0180	EA		1" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.29 3.93 -0.52 6.25	13.95
22 11 16 00-0181	EA		1-1/4" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.20 5.27 -0.69 6.77	15.04
22 11 16 00-0182	EA		1-1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	28.01 6.19 -0.81 6.77	15.04
22 11 16 00-0183	EA		2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	36.79 8.72 -1.15 8.74	19.37
22 11 16 00-0184	EA		2-1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	58.90 25.96 -3.42 10.84	24.12
22 11 16 00-0185	EA		3" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	70.98 31.10 -4.09 13.11	29.13
22 11 16 00-0186	EA		4" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	89.49 46.61 -6.13 14.58	32.43
22 11 16 00-0187	EA		3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.29 3.35 -0.44 5.81	12.87
22 11 16 00-0188	EA		1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.53 2.49 -0.33 5.81	12.87
22 11 16 00-0189	EA		3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.09 3.12 -0.41 5.81	12.87
22 11 16 00-0190	EA		3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.29 3.35 -0.44 5.81	12.87
22 11 16 00-0191	EA		1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.53 2.49 -0.33 5.81	12.87
22 11 16 00-0192	EA		3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.09 3.12 -0.41 5.81	12.87
22 11 16 00-0193	EA		1" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.91 4.64 -0.61 6.25	13.95
22 11 16 00-0194	EA		1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.54 5.65 -0.74 6.77	15.04
22 11 16 00-0195	EA		1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	28.41 6.65 -0.87 6.77	15.04

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0196	EA		3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.26	12.87
			<i>For Schedule 80 Nipples, Add</i>	4.46	
			<i>For ASTM 120, Deduct</i>	-0.59	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0197	EA		1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.91	12.87
			<i>For Schedule 80 Nipples, Add</i>	2.92	
			<i>For ASTM 120, Deduct</i>	-0.38	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0198	EA		3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.37	12.87
			<i>For Schedule 80 Nipples, Add</i>	3.44	
			<i>For ASTM 120, Deduct</i>	-0.45	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0199	EA		1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	25.24	13.95
			<i>For Schedule 80 Nipples, Add</i>	5.02	
			<i>For ASTM 120, Deduct</i>	-0.66	
			<i>For Work In Restricted Working Space, Add</i>	6.25	
22 11 16 00-0200	EA		1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	28.03	15.04
			<i>For Schedule 80 Nipples, Add</i>	6.21	
			<i>For ASTM 120, Deduct</i>	-0.82	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 11 16 00-0201	EA		1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	29.07	15.04
			<i>For Schedule 80 Nipples, Add</i>	7.40	
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 11 16 00-0202	EA		2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	37.75	19.37
			<i>For Schedule 80 Nipples, Add</i>	9.82	
			<i>For ASTM 120, Deduct</i>	-1.29	
			<i>For Work In Restricted Working Space, Add</i>	8.74	
22 11 16 00-0203	EA		3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple	23.26	12.87
			<i>For Schedule 80 Nipples, Add</i>	4.46	
			<i>For ASTM 120, Deduct</i>	-0.59	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0204	EA		1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	21.91	12.87
			<i>For Schedule 80 Nipples, Add</i>	2.92	
			<i>For ASTM 120, Deduct</i>	-0.38	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0205	EA		3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	22.37	12.87
			<i>For Schedule 80 Nipples, Add</i>	3.44	
			<i>For ASTM 120, Deduct</i>	-0.45	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0206	EA		1" x 3" Long, Schedule 40 Galvanized Steel Nipple	25.24	13.95
			<i>For Schedule 80 Nipples, Add</i>	5.02	
			<i>For ASTM 120, Deduct</i>	-0.66	
			<i>For Work In Restricted Working Space, Add</i>	6.25	
22 11 16 00-0207	EA		1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	28.03	15.04
			<i>For Schedule 80 Nipples, Add</i>	6.21	
			<i>For ASTM 120, Deduct</i>	-0.82	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 11 16 00-0208	EA		1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	29.07	15.04
			<i>For Schedule 80 Nipples, Add</i>	7.40	
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 11 16 00-0209	EA		2" x 3" Long, Schedule 40 Galvanized Steel Nipple	37.75	19.37
			<i>For Schedule 80 Nipples, Add</i>	9.82	
			<i>For ASTM 120, Deduct</i>	-1.29	
			<i>For Work In Restricted Working Space, Add</i>	8.74	
22 11 16 00-0210	EA		2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	59.77	24.12
			<i>For Schedule 80 Nipples, Add</i>	26.95	
			<i>For ASTM 120, Deduct</i>	-3.55	
			<i>For Work In Restricted Working Space, Add</i>	10.84	
22 11 16 00-0211	EA		3" x 3" Long, Schedule 40 Galvanized Steel Nipple	74.74	29.13
			<i>For Schedule 80 Nipples, Add</i>	35.39	
			<i>For ASTM 120, Deduct</i>	-4.66	
			<i>For Work In Restricted Working Space, Add</i>	13.11	
22 11 16 00-0212	EA		3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.00	12.87
			<i>For Schedule 80 Nipples, Add</i>	5.30	
			<i>For ASTM 120, Deduct</i>	-0.70	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0213	EA		1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.51	12.87
			<i>For Schedule 80 Nipples, Add</i>	3.60	
			<i>For ASTM 120, Deduct</i>	-0.47	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0214	EA		3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.26	12.87
			<i>For Schedule 80 Nipples, Add</i>	4.46	
			<i>For ASTM 120, Deduct</i>	-0.59	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0215	EA		1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	26.13	13.95
			<i>For Schedule 80 Nipples, Add</i>	6.03	
			<i>For ASTM 120, Deduct</i>	-0.79	
			<i>For Work In Restricted Working Space, Add</i>	6.25	
22 11 16 00-0216	EA		1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	29.07	15.04
			<i>For Schedule 80 Nipples, Add</i>	7.40	
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	6.77	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0217	EA		1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	30.78 9.35 -1.23 6.77	15.04
22 11 16 00-0218	EA		2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	39.59 11.91 -1.57 8.74	19.37
22 11 16 00-0219	EA		2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	63.57 31.28 -4.12 10.84	24.12
22 11 16 00-0220	EA		3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	80.12 41.52 -5.46 13.11	29.13
22 11 16 00-0221	EA		3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.00 5.30 -0.70 5.81	12.87
22 11 16 00-0222	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.51 3.60 -0.47 5.81	12.87
22 11 16 00-0223	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.00 5.30 -0.70 5.81	12.87
22 11 16 00-0224	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.13 6.03 -0.79 6.25	13.95
22 11 16 00-0225	EA		1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	29.07 7.40 -0.97 6.77	15.04
22 11 16 00-0226	EA		1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	30.78 9.35 -1.23 6.77	15.04
22 11 16 00-0227	EA		2" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	39.68 12.02 -1.58 8.74	19.37
22 11 16 00-0228	EA		2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	63.57 31.28 -4.12 10.84	24.12
22 11 16 00-0229	EA		3" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	80.12 41.52 -5.46 13.11	29.13
22 11 16 00-0230	EA		4" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	97.50 55.75 -7.34 14.58	32.43
22 11 16 00-0231	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	25.75 7.30 -0.96 5.81	12.87
22 11 16 00-0232	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.15 4.33 -0.57 5.81	12.87
22 11 16 00-0233	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.02 5.32 -0.70 5.81	12.87
22 11 16 00-0234	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.33 7.40 -0.97 6.25	13.95
22 11 16 00-0235	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	30.61 9.15 -1.20 6.77	15.04
22 11 16 00-0236	EA		1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	32.50 11.31 -1.49 6.77	15.04
22 11 16 00-0237	EA		2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	42.48 15.21 -2.00 8.74	19.37

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0238	EA		2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	66.73	24.12
			<i>For Schedule 80 Nipples, Add</i>	34.88	
			<i>For ASTM 120, Deduct</i>	-4.59	
			<i>For Work In Restricted Working Space, Add</i>	10.84	
22 11 16 00-0239	EA		3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	86.15	29.13
			<i>For Schedule 80 Nipples, Add</i>	48.39	
			<i>For ASTM 120, Deduct</i>	-6.37	
			<i>For Work In Restricted Working Space, Add</i>	13.11	
22 11 16 00-0240	EA		4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	103.43	32.43
			<i>For Schedule 80 Nipples, Add</i>	62.51	
			<i>For ASTM 120, Deduct</i>	-8.22	
			<i>For Work In Restricted Working Space, Add</i>	14.58	
22 11 16 00-0241	EA		3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple	25.75	12.87
			<i>For Schedule 80 Nipples, Add</i>	7.30	
			<i>For ASTM 120, Deduct</i>	-0.96	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0242	EA		1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	23.15	12.87
			<i>For Schedule 80 Nipples, Add</i>	4.33	
			<i>For ASTM 120, Deduct</i>	-0.57	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0243	EA		3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	24.02	12.87
			<i>For Schedule 80 Nipples, Add</i>	5.32	
			<i>For ASTM 120, Deduct</i>	-0.70	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0244	EA		1" x 5" Long, Schedule 40 Galvanized Steel Nipple	27.33	13.95
			<i>For Schedule 80 Nipples, Add</i>	7.40	
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	6.25	
22 11 16 00-0245	EA		1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	30.61	15.04
			<i>For Schedule 80 Nipples, Add</i>	9.15	
			<i>For ASTM 120, Deduct</i>	-1.20	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 11 16 00-0246	EA		1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	32.50	15.04
			<i>For Schedule 80 Nipples, Add</i>	11.31	
			<i>For ASTM 120, Deduct</i>	-1.49	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 11 16 00-0247	EA		2" x 5" Long, Schedule 40 Galvanized Steel Nipple	42.48	19.37
			<i>For Schedule 80 Nipples, Add</i>	15.21	
			<i>For ASTM 120, Deduct</i>	-2.00	
			<i>For Work In Restricted Working Space, Add</i>	8.74	
22 11 16 00-0248	EA		2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	66.73	24.12
			<i>For Schedule 80 Nipples, Add</i>	34.88	
			<i>For ASTM 120, Deduct</i>	-4.59	
			<i>For Work In Restricted Working Space, Add</i>	10.84	
22 11 16 00-0249	EA		3" x 5" Long, Schedule 40 Galvanized Steel Nipple	86.15	29.13
			<i>For Schedule 80 Nipples, Add</i>	48.39	
			<i>For ASTM 120, Deduct</i>	-6.37	
			<i>For Work In Restricted Working Space, Add</i>	13.11	
22 11 16 00-0250	EA		4" x 5" Long, Schedule 40 Galvanized Steel Nipple	103.43	32.43
			<i>For Schedule 80 Nipples, Add</i>	62.51	
			<i>For ASTM 120, Deduct</i>	-8.22	
			<i>For Work In Restricted Working Space, Add</i>	14.58	
22 11 16 00-0251	EA		3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple	26.47	12.87
			<i>For Schedule 80 Nipples, Add</i>	8.12	
			<i>For ASTM 120, Deduct</i>	-1.07	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0252	EA		1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	23.66	12.87
			<i>For Schedule 80 Nipples, Add</i>	4.91	
			<i>For ASTM 120, Deduct</i>	-0.65	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0253	EA		3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	24.95	12.87
			<i>For Schedule 80 Nipples, Add</i>	6.38	
			<i>For ASTM 120, Deduct</i>	-0.84	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0254	EA		1" x 6" Long, Schedule 40 Galvanized Steel Nipple	28.20	13.95
			<i>For Schedule 80 Nipples, Add</i>	8.39	
			<i>For ASTM 120, Deduct</i>	-1.10	
			<i>For Work In Restricted Working Space, Add</i>	6.25	
22 11 16 00-0255	EA		1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	31.90	15.04
			<i>For Schedule 80 Nipples, Add</i>	10.62	
			<i>For ASTM 120, Deduct</i>	-1.40	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 11 16 00-0256	EA		1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	33.74	15.04
			<i>For Schedule 80 Nipples, Add</i>	12.72	
			<i>For ASTM 120, Deduct</i>	-1.67	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 11 16 00-0257	EA		2" x 6" Long, Schedule 40 Galvanized Steel Nipple	44.64	19.37
			<i>For Schedule 80 Nipples, Add</i>	17.67	
			<i>For ASTM 120, Deduct</i>	-2.33	
			<i>For Work In Restricted Working Space, Add</i>	8.74	
22 11 16 00-0258	EA		2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	69.75	24.12
			<i>For Schedule 80 Nipples, Add</i>	38.33	
			<i>For ASTM 120, Deduct</i>	-5.04	
			<i>For Work In Restricted Working Space, Add</i>	10.84	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0259	EA		3" x 6" Long, Schedule 40 Galvanized Steel Nipple	88.59	29.13
			<i>For Schedule 80 Nipples, Add</i>	51.17	
			<i>For ASTM 120, Deduct</i>	-6.73	
			<i>For Work In Restricted Working Space, Add</i>	13.11	
22 11 16 00-0260	EA		4" x 6" Long, Schedule 40 Galvanized Steel Nipple	109.21	32.43
			<i>For Schedule 80 Nipples, Add</i>	69.10	
			<i>For ASTM 120, Deduct</i>	-9.09	
			<i>For Work In Restricted Working Space, Add</i>	14.58	
22 11 16 00-0261	EA		3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple	47.79	12.87
			<i>For Schedule 80 Nipples, Add</i>	32.42	
			<i>For ASTM 120, Deduct</i>	-4.27	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0262	EA		1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	26.95	12.87
			<i>For Schedule 80 Nipples, Add</i>	8.66	
			<i>For ASTM 120, Deduct</i>	-1.14	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0263	EA		3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	29.07	12.87
			<i>For Schedule 80 Nipples, Add</i>	11.08	
			<i>For ASTM 120, Deduct</i>	-1.46	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0264	EA		1" x 8" Long, Schedule 40 Galvanized Steel Nipple	33.16	13.95
			<i>For Schedule 80 Nipples, Add</i>	14.04	
			<i>For ASTM 120, Deduct</i>	-1.85	
			<i>For Work In Restricted Working Space, Add</i>	6.25	
22 11 16 00-0265	EA		1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	37.68	15.04
			<i>For Schedule 80 Nipples, Add</i>	17.21	
			<i>For ASTM 120, Deduct</i>	-2.27	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 11 16 00-0266	EA		1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	39.90	15.04
			<i>For Schedule 80 Nipples, Add</i>	19.74	
			<i>For ASTM 120, Deduct</i>	-2.60	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 11 16 00-0267	EA		2" x 8" Long, Schedule 40 Galvanized Steel Nipple	54.40	19.37
			<i>For Schedule 80 Nipples, Add</i>	28.80	
			<i>For ASTM 120, Deduct</i>	-3.79	
			<i>For Work In Restricted Working Space, Add</i>	8.74	
22 11 16 00-0268	EA		2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	79.40	24.12
			<i>For Schedule 80 Nipples, Add</i>	49.33	
			<i>For ASTM 120, Deduct</i>	-6.49	
			<i>For Work In Restricted Working Space, Add</i>	10.84	
22 11 16 00-0269	EA		3" x 8" Long, Schedule 40 Galvanized Steel Nipple	104.18	29.13
			<i>For Schedule 80 Nipples, Add</i>	68.95	
			<i>For ASTM 120, Deduct</i>	-9.07	
			<i>For Work In Restricted Working Space, Add</i>	13.11	
22 11 16 00-0270	EA		4" x 8" Long, Schedule 40 Galvanized Steel Nipple	120.93	32.43
			<i>For Schedule 80 Nipples, Add</i>	82.46	
			<i>For ASTM 120, Deduct</i>	-10.85	
			<i>For Work In Restricted Working Space, Add</i>	14.58	
22 11 16 00-0271	EA		3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple	32.91	12.87
			<i>For Schedule 80 Nipples, Add</i>	15.46	
			<i>For ASTM 120, Deduct</i>	-2.03	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0272	EA		1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	28.38	12.87
			<i>For Schedule 80 Nipples, Add</i>	10.29	
			<i>For ASTM 120, Deduct</i>	-1.35	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0273	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	30.13	12.87
			<i>For Schedule 80 Nipples, Add</i>	12.29	
			<i>For ASTM 120, Deduct</i>	-1.62	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0274	EA		1" x 10" Long, Schedule 40 Galvanized Steel Nipple	34.92	13.95
			<i>For Schedule 80 Nipples, Add</i>	16.05	
			<i>For ASTM 120, Deduct</i>	-2.11	
			<i>For Work In Restricted Working Space, Add</i>	6.25	
22 11 16 00-0275	EA		1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	40.64	15.04
			<i>For Schedule 80 Nipples, Add</i>	20.59	
			<i>For ASTM 120, Deduct</i>	-2.71	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 11 16 00-0276	EA		1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	42.77	15.04
			<i>For Schedule 80 Nipples, Add</i>	23.02	
			<i>For ASTM 120, Deduct</i>	-3.03	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 11 16 00-0277	EA		2" x 10" Long, Schedule 40 Galvanized Steel Nipple	58.69	19.37
			<i>For Schedule 80 Nipples, Add</i>	33.69	
			<i>For ASTM 120, Deduct</i>	-4.43	
			<i>For Work In Restricted Working Space, Add</i>	8.74	
22 11 16 00-0278	EA		2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	85.45	24.12
			<i>For Schedule 80 Nipples, Add</i>	56.22	
			<i>For ASTM 120, Deduct</i>	-7.40	
			<i>For Work In Restricted Working Space, Add</i>	10.84	
22 11 16 00-0279	EA		3" x 10" Long, Schedule 40 Galvanized Steel Nipple	112.70	29.13
			<i>For Schedule 80 Nipples, Add</i>	78.66	
			<i>For ASTM 120, Deduct</i>	-10.35	
			<i>For Work In Restricted Working Space, Add</i>	13.11	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0280 EA 4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	132.43	32.43
For Schedule 80 Nipples, Add	95.57	
For ASTM 120, Deduct	-12.57	
For Work In Restricted Working Space, Add	14.58	
22 11 16 00-0281 EA 3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	34.38	12.87
For Schedule 80 Nipples, Add	17.13	
For ASTM 120, Deduct	-2.25	
For Work In Restricted Working Space, Add	5.81	
22 11 16 00-0282 EA 1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	29.62	12.87
For Schedule 80 Nipples, Add	11.71	
For ASTM 120, Deduct	-1.54	
For Work In Restricted Working Space, Add	5.81	
22 11 16 00-0283 EA 3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	31.45	12.87
For Schedule 80 Nipples, Add	13.79	
For ASTM 120, Deduct	-1.82	
For Work In Restricted Working Space, Add	5.81	
22 11 16 00-0284 EA 1" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	37.23	13.95
For Schedule 80 Nipples, Add	18.68	
For ASTM 120, Deduct	-2.46	
For Work In Restricted Working Space, Add	6.25	
22 11 16 00-0285 EA 1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	44.26	15.04
For Schedule 80 Nipples, Add	24.72	
For ASTM 120, Deduct	-3.25	
For Work In Restricted Working Space, Add	6.77	
22 11 16 00-0286 EA 1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	45.68	15.04
For Schedule 80 Nipples, Add	26.33	
For ASTM 120, Deduct	-3.47	
For Work In Restricted Working Space, Add	6.77	
22 11 16 00-0287 EA 2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	63.05	19.37
For Schedule 80 Nipples, Add	38.66	
For ASTM 120, Deduct	-5.09	
For Work In Restricted Working Space, Add	8.74	
22 11 16 00-0288 EA 2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	91.32	24.12
For Schedule 80 Nipples, Add	62.92	
For ASTM 120, Deduct	-8.28	
For Work In Restricted Working Space, Add	10.84	
22 11 16 00-0289 EA 3" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	121.28	29.13
For Schedule 80 Nipples, Add	88.44	
For ASTM 120, Deduct	-11.64	
For Work In Restricted Working Space, Add	13.11	
22 11 16 00-0290 EA 4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	144.03	32.43
For Schedule 80 Nipples, Add	108.79	
For ASTM 120, Deduct	-14.31	
For Work In Restricted Working Space, Add	14.58	
22 11 16 00-0291 Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)		
22 11 16 00-0292 EA 1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	20.57	9.62
For 300 LB Rating, Add	21.68	
For Work In Restricted Working Space, Add	4.34	
22 11 16 00-0293 EA 3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	22.29	10.84
For 300 LB Rating, Add	21.78	
For Work In Restricted Working Space, Add	4.85	
22 11 16 00-0294 EA 1", 150 LB, Galvanized Malleable Iron Square Head Plug.....	24.77	12.06
For 300 LB Rating, Add	23.90	
For Work In Restricted Working Space, Add	5.42	
22 11 16 00-0295 EA 1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	30.77	13.69
For 300 LB Rating, Add	36.32	
For Work In Restricted Working Space, Add	6.14	
22 11 16 00-0296 EA 1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	36.96	15.31
For 300 LB Rating, Add	48.64	
For Work In Restricted Working Space, Add	6.92	
22 11 16 00-0297 EA 2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	46.96	19.51
For 300 LB Rating, Add	61.84	
For Work In Restricted Working Space, Add	8.79	
22 11 16 00-0298 EA 2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	77.82	28.86
For 300 LB Rating, Add	119.77	
For Work In Restricted Working Space, Add	13.01	
22 11 16 00-0299 EA 3", 150 LB, Galvanized Malleable Iron Square Head Plug.....	105.95	38.07
For 300 LB Rating, Add	169.65	
For Work In Restricted Working Space, Add	17.12	
22 11 16 00-0300 EA 4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	158.21	37.78
For 300 LB Rating, Add	348.54	
For Work In Restricted Working Space, Add	17.01	
22 11 16 00-0301 EA 5", 150 LB, Galvanized Malleable Iron Square Head Plug.....	245.41	39.48
For 300 LB Rating, Add	636.77	
For Work In Restricted Working Space, Add	17.75	
22 11 16 00-0302 EA 6", 150 LB, Galvanized Malleable Iron Square Head Plug.....	263.19	41.18
For 300 LB Rating, Add	688.27	
For Work In Restricted Working Space, Add	18.56	
22 11 16 00-0303 Galvanized Malleable Iron Bushing (22 11 16 00-0013)		
22 11 16 00-0304 EA 3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	53.70	25.47
For Work In Restricted Working Space, Add	11.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0305 EA 1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	59.08 12.19	27.10
22 11 16 00-0306 EA 1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	60.27 12.84	28.58
22 11 16 00-0307 EA 1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	69.45 13.09	29.13
22 11 16 00-0308 EA 1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	69.26 13.73	30.49
22 11 16 00-0309 EA 1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	71.62 14.44	32.11
22 11 16 00-0310 EA 1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	81.01 14.07	31.30
22 11 16 00-0311 EA 1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	83.16 14.71	32.65
22 11 16 00-0312 EA 1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	82.18 15.42	34.28
22 11 16 00-0313 EA 1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	82.77 16.31	36.31
22 11 16 00-0314 EA 2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	97.31 16.41	36.45
22 11 16 00-0315 EA 2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	96.50 17.05	37.94
22 11 16 00-0316 EA 2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	96.68 17.76	39.43
22 11 16 00-0317 EA 2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	99.67 18.65	41.46
22 11 16 00-0318 EA 2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	98.32 19.63	43.63
22 11 16 00-0319 EA 2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	136.09 22.33	49.59
22 11 16 00-0320 EA 2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	138.45 23.03	51.22
22 11 16 00-0321 EA 2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	141.43 23.93	53.12
22 11 16 00-0322 EA 2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	143.56 24.91	55.42
22 11 16 00-0323 EA 2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	144.44 27.24	60.56
22 11 16 00-0324 EA 3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	172.95 27.46	60.97
22 11 16 00-0325 EA 3" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	175.30 28.17	62.59
22 11 16 00-0326 EA 3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	178.29 29.06	64.63
22 11 16 00-0327 EA 3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	179.95 30.04	66.79
22 11 16 00-0328 EA 3" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	180.29 32.38	71.94
22 11 16 00-0329 EA 3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	202.06 37.65	83.73
22 11 16 00-0330 EA 4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	259.62 26.70	59.29
22 11 16 00-0331 EA 4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	261.73 27.34	60.75
22 11 16 00-0332 EA 4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	264.40 28.14	62.57
22 11 16 00-0333 EA 4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	267.33 29.02	64.52
22 11 16 00-0334 EA 4" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	254.23 31.11	69.13
22 11 16 00-0335 EA 4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	290.08 35.84	79.70
22 11 16 00-0336 EA 4" x 3", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	294.15 40.45	89.90
22 11 16 00-0337 Galvanized Malleable Iron Floor Flange <small>(22 11 16 00-0013)</small> Note: Excludes fasteners to floor or wall. See CSI section 05 05 19 00-0001 for anchors.		
22 11 16 00-0338 EA 1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	81.04	49.51
22 11 16 00-0339 EA 3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	88.62	54.19
22 11 16 00-0340 EA 1", 150 LB, Galvanized Malleable Iron Floor Flange.....	101.38	61.24
22 11 16 00-0341 EA 1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	105.25	63.41
22 11 16 00-0342 EA 1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	114.55	68.97
22 11 16 00-0343 EA 2", 150 LB, Galvanized Malleable Iron Floor Flange.....	122.43	71.94
22 11 16 00-0344 Galvanized Cast Iron Flanges <small>(22 11 16 00-0013)</small> Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
22 11 16 00-0345 EA 3/4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	138.47 24.39	54.19
22 11 16 00-0346 EA 1", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	136.12 27.55	61.24
22 11 16 00-0347 EA 1-1/4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	118.47 28.52	63.41



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0348	EA		1-1/2", 125 LB, Galvanized Cast Iron Flange.....	137.98	68.97
			<i>For Work In Restricted Working Space, Add</i>	31.03	
22 11 16 00-0349	EA		2", 125 LB, Galvanized Cast Iron Flange.....	153.67	71.94
			<i>For Work In Restricted Working Space, Add</i>	32.38	
22 11 16 00-0350	EA		2-1/2", 125 LB, Galvanized Cast Iron Flange.....	178.35	83.32
			<i>For Work In Restricted Working Space, Add</i>	37.46	
22 11 16 00-0351	EA		3", 125 LB, Galvanized Cast Iron Flange.....	302.90	105.68
			<i>For Work In Restricted Working Space, Add</i>	47.53	
22 11 16 00-0352	EA		4", 125 LB, Galvanized Cast Iron Flange.....	391.11	129.64
			<i>For Work In Restricted Working Space, Add</i>	58.30	
22 11 16 00-0353	EA		5", 125 LB, Galvanized Cast Iron Flange.....	540.26	154.30
			<i>For Work In Restricted Working Space, Add</i>	69.41	
22 11 16 00-0354	EA		6", 125 LB, Galvanized Cast Iron Flange.....	595.96	177.26
			<i>For Work In Restricted Working Space, Add</i>	79.73	
22 11 16 00-0355	EA		8", 125 LB, Galvanized Cast Iron Flange.....	561.88	202.59
			<i>For Work In Restricted Working Space, Add</i>	91.12	
22 11 16 00-0356			Cut And Thread Existing In-Place Galvanized Steel Pipe <small>(22 11 16 00-0013)</small>		
			Note: For use when connecting pipe to an existing in-place system.		
22 11 16 00-0357	EA		1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	44.15	
			<i>For Work In Restricted Working Space, Add</i>	13.25	
22 11 16 00-0358	EA		3/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	48.56	
			<i>For Work In Restricted Working Space, Add</i>	14.57	
22 11 16 00-0359	EA		1", Cut And Thread Existing In Place Galvanized Steel Pipe.....	52.98	
			<i>For Work In Restricted Working Space, Add</i>	15.89	
22 11 16 00-0360	EA		1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	57.39	
			<i>For Work In Restricted Working Space, Add</i>	17.22	
22 11 16 00-0361	EA		1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	60.33	
			<i>For Work In Restricted Working Space, Add</i>	18.10	
22 11 16 00-0362	EA		2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	63.28	
			<i>For Work In Restricted Working Space, Add</i>	18.98	
22 11 16 00-0363	EA		2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	66.23	
			<i>For Work In Restricted Working Space, Add</i>	19.87	
22 11 16 00-0364	EA		3", Cut And Thread Existing In Place Galvanized Steel Pipe.....	69.16	
			<i>For Work In Restricted Working Space, Add</i>	20.75	
22 11 16 00-0365	EA		4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	72.11	
			<i>For Work In Restricted Working Space, Add</i>	21.63	
22 11 16 00-0366	EA		6", Cut And Thread Existing In Place Galvanized Steel Pipe.....	77.99	
			<i>For Work In Restricted Working Space, Add</i>	23.40	
22 11 16 00-0367	EA		8", Cut And Thread Existing In Place Galvanized Steel Pipe.....	83.88	
			<i>For Work In Restricted Working Space, Add</i>	25.16	
22 11 16 00-0368			Copper Pipe And Fittings <small>(22 11 16)</small>		
			Note: Excludes hangers. See CSI section 22 11 16 00-0899 for pipe with fittings assembly.		
22 11 16 00-0369			Copper Tube/Pipe <small>(22 11 16 00-0368)</small>		
			Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
22 11 16 00-0370			Hard Drawn Type L Copper Tube/Pipe <small>(22 11 16 00-0369)</small>		
22 11 16 00-0371	LF		1/4" Hard Drawn Type L Copper Tube/Pipe.....	6.77	3.31
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.14	
			<i>For Up To 20, Add</i>	0.72	
			<i>For >150, Deduct</i>	-0.18	
			<i>For Work In Restricted Working Space, Add</i>	1.49	
22 11 16 00-0372	LF		3/8" Hard Drawn Type L Copper Tube/Pipe.....	7.81	3.44
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.21	
			<i>For Up To 20, Add</i>	0.85	
			<i>For >150, Deduct</i>	-0.26	
			<i>For Work In Restricted Working Space, Add</i>	1.55	
22 11 16 00-0373	LF		1/2" Hard Drawn Type L Copper Tube/Pipe.....	8.53	3.59
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.25	
			<i>For Up To 20, Add</i>	0.93	
			<i>For >150, Deduct</i>	-0.31	
			<i>For Work In Restricted Working Space, Add</i>	1.62	
22 11 16 00-0374	LF		3/4" Hard Drawn Type L Copper Tube/Pipe.....	10.83	3.81
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.41	
			<i>For Up To 20, Add</i>	1.21	
			<i>For >150, Deduct</i>	-0.51	
			<i>For Work In Restricted Working Space, Add</i>	1.72	
22 11 16 00-0375	LF		1" Hard Drawn Type L Copper Tube/Pipe.....	13.81	4.28
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.59	
			<i>For Up To 20, Add</i>	1.57	
			<i>For >150, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	1.93	
22 11 16 00-0376	LF		1-1/4" Hard Drawn Type L Copper Tube/Pipe.....	19.73	6.37
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.82	
			<i>For Up To 20, Add</i>	2.23	
			<i>For >150, Deduct</i>	-1.02	
			<i>For Work In Restricted Working Space, Add</i>	2.86	
22 11 16 00-0377	LF		1-1/2" Hard Drawn Type L Copper Tube/Pipe.....	23.76	7.11
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.05	
			<i>For Up To 20, Add</i>	2.70	
			<i>For >150, Deduct</i>	-1.31	
			<i>For Work In Restricted Working Space, Add</i>	3.20	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0378	LF		2" Hard Drawn Type L Copper Tube/Pipe .....33.88		8.77
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.66	
			<i>For Up To 20, Add</i>	3.91	
			<i>For >150, Deduct</i>	-2.07	
			<i>For Work In Restricted Working Space, Add</i>	3.94	
22 11 16 00-0379	LF		2-1/2" Hard Drawn Type L Copper Tube/Pipe .....60.92		10.31
			<i>For Medical/Oxygen Service Tubing, Add</i>	2.40	
			<i>For Up To 20, Add</i>	6.84	
			<i>For >150, Deduct</i>	-3.00	
			<i>For Work In Restricted Working Space, Add</i>	9.29	
22 11 16 00-0380	LF		3" Hard Drawn Type L Copper Tube/Pipe .....76.38		12.15
			<i>For Medical/Oxygen Service Tubing, Add</i>	3.20	
			<i>For Up To 20, Add</i>	8.64	
			<i>For >150, Deduct</i>	-4.00	
			<i>For Work In Restricted Working Space, Add</i>	10.93	
22 11 16 00-0381	LF		4" Hard Drawn Type L Copper Tube/Pipe .....112.32		13.71
			<i>For Medical/Oxygen Service Tubing, Add</i>	5.70	
			<i>For Up To 20, Add</i>	13.01	
			<i>For >150, Deduct</i>	-7.12	
			<i>For Work In Restricted Working Space, Add</i>	12.33	
22 11 16 00-0382	LF		5" Hard Drawn Type L Copper Tube/Pipe .....172.99		15.74
			<i>For Medical/Oxygen Service Tubing, Add</i>	10.06	
			<i>For Up To 20, Add</i>	20.44	
			<i>For >150, Deduct</i>	-12.58	
			<i>For Work In Restricted Working Space, Add</i>	14.17	
22 11 16 00-0383	LF		6" Hard Drawn Type L Copper Tube/Pipe .....238.63		24.40
			<i>For Medical/Oxygen Service Tubing, Add</i>	13.24	
			<i>For Up To 20, Add</i>	28.00	
			<i>For >150, Deduct</i>	-16.55	
			<i>For Work In Restricted Working Space, Add</i>	21.95	
22 11 16 00-0384	LF		8" Hard Drawn Type L Copper Tube/Pipe .....393.18		27.13
			<i>For Medical/Oxygen Service Tubing, Add</i>	24.95	
			<i>For Up To 20, Add</i>	47.11	
			<i>For >150, Deduct</i>	-31.19	
			<i>For Work In Restricted Working Space, Add</i>	24.40	
22 11 16 00-0385			Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0389)		
22 11 16 00-0386	LF		1/4" Hard Drawn Type K Copper Tube/Pipe .....7.36		3.56
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.16	
			<i>For Up To 20, Add</i>	0.79	
			<i>For >150, Deduct</i>	-0.20	
			<i>For Work In Restricted Working Space, Add</i>	1.60	
22 11 16 00-0387	LF		3/8" Hard Drawn Type K Copper Tube/Pipe .....9.74		3.71
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.29	
			<i>For Up To 20, Add</i>	1.07	
			<i>For >150, Deduct</i>	-0.36	
			<i>For Work In Restricted Working Space, Add</i>	1.83	
22 11 16 00-0388	LF		1/2" Hard Drawn Type K Copper Tube/Pipe .....10.22		3.85
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.34	
			<i>For Up To 20, Add</i>	1.13	
			<i>For >150, Deduct</i>	-0.43	
			<i>For Work In Restricted Working Space, Add</i>	1.79	
22 11 16 00-0389	LF		3/4" Hard Drawn Type K Copper Tube/Pipe .....14.60		4.09
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.62	
			<i>For Up To 20, Add</i>	1.65	
			<i>For >150, Deduct</i>	-0.77	
			<i>For Work In Restricted Working Space, Add</i>	2.07	
22 11 16 00-0390	LF		1" Hard Drawn Type K Copper Tube/Pipe .....17.57		4.60
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.82	
			<i>For Up To 20, Add</i>	2.01	
			<i>For >150, Deduct</i>	-1.02	
			<i>For Work In Restricted Working Space, Add</i>	2.20	
22 11 16 00-0391	LF		1-1/4" Hard Drawn Type K Copper Tube/Pipe .....23.14		6.85
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.02	
			<i>For Up To 20, Add</i>	2.63	
			<i>For >150, Deduct</i>	-1.28	
			<i>For Work In Restricted Working Space, Add</i>	3.12	
22 11 16 00-0392	LF		1-1/2" Hard Drawn Type K Copper Tube/Pipe .....28.01		7.64
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.31	
			<i>For Up To 20, Add</i>	3.21	
			<i>For >150, Deduct</i>	-1.63	
			<i>For Work In Restricted Working Space, Add</i>	3.50	
22 11 16 00-0393	LF		2" Hard Drawn Type K Copper Tube/Pipe .....39.41		9.43
			<i>For Medical/Oxygen Service Tubing, Add</i>	2.01	
			<i>For Up To 20, Add</i>	4.57	
			<i>For >150, Deduct</i>	-2.51	
			<i>For Work In Restricted Working Space, Add</i>	4.29	
22 11 16 00-0394	LF		2-1/2" Hard Drawn Type K Copper Tube/Pipe .....68.52		11.08
			<i>For Medical/Oxygen Service Tubing, Add</i>	2.99	
			<i>For Up To 20, Add</i>	7.79	
			<i>For >150, Deduct</i>	-3.74	
			<i>For Work In Restricted Working Space, Add</i>	9.33	

22	Plumbing
22 10	Plumbing Piping
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0395 LF 3" Hard Drawn Type K Copper Tube/Pipe	91.22	13.07
For Medical/Oxygen Service Tubing, Add	4.09	
For Up To 20, Add	10.40	
For >150, Deduct	-5.11	
For Work In Restricted Working Space, Add	12.03	
22 11 16 00-0396 LF 4" Hard Drawn Type K Copper Tube/Pipe	136.56	14.74
For Medical/Oxygen Service Tubing, Add	7.29	
For Up To 20, Add	15.93	
For >150, Deduct	-9.11	
For Work In Restricted Working Space, Add	13.63	
22 11 16 00-0397 LF 6" Hard Drawn Type K Copper Tube/Pipe	220.64	16.92
For Medical/Oxygen Service Tubing, Add	13.36	
For Up To 20, Add	26.24	
For >150, Deduct	-16.70	
For Work In Restricted Working Space, Add	16.09	
22 11 16 00-0398 LF 6" Hard Drawn Type K Copper Tube/Pipe	326.08	26.23
For Medical/Oxygen Service Tubing, Add	19.17	
For Up To 20, Add	38.60	
For >150, Deduct	-23.96	
For Work In Restricted Working Space, Add	25.93	
22 11 16 00-0399 LF 8" Hard Drawn Type K Copper Tube/Pipe	543.98	29.16
For Medical/Oxygen Service Tubing, Add	35.90	
For Up To 20, Add	65.62	
For >150, Deduct	-44.87	
For Work In Restricted Working Space, Add	28.57	
22 11 16 00-0400 Hard Drawn Type M Copper Tube/Pipe <small>(22 11 16 00-0369)</small>		
22 11 16 00-0401 LF 3/8" Hard Drawn Type M Copper Tube/Pipe	6.53	3.11
For Up To 20, Add	0.70	
For >150, Deduct	-0.21	
For Work In Restricted Working Space, Add	1.34	
22 11 16 00-0402 LF 1/2" Hard Drawn Type M Copper Tube/Pipe	6.93	3.24
For Up To 20, Add	0.75	
For >150, Deduct	-0.23	
For Work In Restricted Working Space, Add	1.39	
22 11 16 00-0403 LF 3/4" Hard Drawn Type M Copper Tube/Pipe	8.66	3.43
For Up To 20, Add	0.96	
For >150, Deduct	-0.37	
For Work In Restricted Working Space, Add	1.48	
22 11 16 00-0404 LF 1" Hard Drawn Type M Copper Tube/Pipe	11.26	3.85
For Up To 20, Add	1.27	
For >150, Deduct	-0.58	
For Work In Restricted Working Space, Add	1.65	
22 11 16 00-0405 LF 1-1/4" Hard Drawn Type M Copper Tube/Pipe	16.87	5.74
For Up To 20, Add	1.90	
For >150, Deduct	-0.84	
For Work In Restricted Working Space, Add	2.54	
22 11 16 00-0406 LF 1-1/2" Hard Drawn Type M Copper Tube/Pipe	21.30	6.40
For Up To 20, Add	2.42	
For >150, Deduct	-1.16	
For Work In Restricted Working Space, Add	2.91	
22 11 16 00-0407 LF 2" Hard Drawn Type M Copper Tube/Pipe	30.29	7.89
For Up To 20, Add	3.49	
For >150, Deduct	-1.82	
For Work In Restricted Working Space, Add	3.62	
22 11 16 00-0408 LF 2-1/2" Hard Drawn Type M Copper Tube/Pipe	55.74	9.28
For Up To 20, Add	6.24	
For >150, Deduct	-2.65	
For Work In Restricted Working Space, Add	8.78	
22 11 16 00-0409 LF 3" Hard Drawn Type M Copper Tube/Pipe	68.07	10.93
For Up To 20, Add	7.69	
For >150, Deduct	-3.52	
For Work In Restricted Working Space, Add	9.86	
22 11 16 00-0410 LF 4" Hard Drawn Type M Copper Tube/Pipe	104.28	12.34
For Up To 20, Add	12.08	
For >150, Deduct	-6.59	
For Work In Restricted Working Space, Add	11.51	
22 11 16 00-0411 LF 5" Hard Drawn Type M Copper Tube/Pipe	172.25	14.17
For Up To 20, Add	20.42	
For >150, Deduct	-12.80	
For Work In Restricted Working Space, Add	13.28	
22 11 16 00-0412 LF 6" Hard Drawn Type M Copper Tube/Pipe	239.55	21.97
For Up To 20, Add	28.23	
For >150, Deduct	-17.10	
For Work In Restricted Working Space, Add	20.57	
22 11 16 00-0413 LF 8" Hard Drawn Type M Copper Tube/Pipe	399.42	24.41
For Up To 20, Add	48.04	
For >150, Deduct	-32.40	
For Work In Restricted Working Space, Add	22.63	
22 11 16 00-0414 Soft Drawn Type L Copper Tube <small>(22 11 16 00-0369)</small>		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0415 LF 1/4" Soft Drawn Type L Copper Tube.....	7.28	3.31
For Up To 20, Add	0.79	
For >150, Deduct	-0.23	
For Work In Restricted Working Space, Add	1.49	
22 11 16 00-0416 LF 3/8" Soft Drawn Type L Copper Tube.....	8.78	3.44
For Up To 20, Add	0.97	
For >150, Deduct	-0.36	
For Work In Restricted Working Space, Add	1.55	
22 11 16 00-0417 LF 1/2" Soft Drawn Type L Copper Tube.....	10.24	3.59
For Up To 20, Add	1.15	
For >150, Deduct	-0.49	
For Work In Restricted Working Space, Add	1.62	
22 11 16 00-0418 LF 5/8" Soft Drawn Type L Copper Tube.....	11.77	3.71
For Up To 20, Add	1.33	
For >150, Deduct	-0.62	
For Work In Restricted Working Space, Add	1.67	
22 11 16 00-0419 LF 3/4" Soft Drawn Type L Copper Tube.....	13.14	3.81
For Up To 20, Add	1.50	
For >150, Deduct	-0.74	
For Work In Restricted Working Space, Add	1.72	
22 11 16 00-0420 LF 1" Soft Drawn Type L Copper Tube.....	16.70	4.28
For Up To 20, Add	1.93	
For >150, Deduct	-1.03	
For Work In Restricted Working Space, Add	1.93	
22 11 16 00-0421 LF 1-1/4" Soft Drawn Type L Copper Tube.....	23.07	6.37
For Up To 20, Add	2.65	
For >150, Deduct	-1.35	
For Work In Restricted Working Space, Add	2.86	
22 11 16 00-0422 LF 1-1/2" Soft Drawn Type L Copper Tube.....	28.99	7.11
For Up To 20, Add	3.36	
For >150, Deduct	-1.83	
For Work In Restricted Working Space, Add	3.20	
22 11 16 00-0423 LF 2" Soft Drawn Type L Copper Tube.....	42.30	8.77
For Up To 20, Add	4.96	
For >150, Deduct	-2.92	
For Work In Restricted Working Space, Add	3.94	
22 11 16 00-0424 Soft Drawn Type K Copper Tube (22 11 16 00-0369)		
22 11 16 00-0425 LF 1/4" Soft Drawn Type K Copper Tube.....	7.52	3.31
For Up To 20, Add	0.82	
For >150, Deduct	-0.26	
For Work In Restricted Working Space, Add	1.49	
22 11 16 00-0426 LF 3/8" Soft Drawn Type K Copper Tube.....	9.54	3.44
For Up To 20, Add	1.06	
For >150, Deduct	-0.44	
For Work In Restricted Working Space, Add	1.55	
22 11 16 00-0427 LF 1/2" Soft Drawn Type K Copper Tube.....	10.86	3.59
For Up To 20, Add	1.22	
For >150, Deduct	-0.55	
For Work In Restricted Working Space, Add	1.62	
22 11 16 00-0428 LF 5/8" Soft Drawn Type K Copper Tube.....	12.07	3.71
For Up To 20, Add	1.37	
For >150, Deduct	-0.65	
For Work In Restricted Working Space, Add	1.67	
22 11 16 00-0429 LF 3/4" Soft Drawn Type K Copper Tube.....	15.84	3.81
For Up To 20, Add	1.84	
For >150, Deduct	-1.01	
For Work In Restricted Working Space, Add	1.72	
22 11 16 00-0430 LF 1" Soft Drawn Type K Copper Tube.....	19.86	4.28
For Up To 20, Add	2.32	
For >150, Deduct	-1.34	
For Work In Restricted Working Space, Add	1.93	
22 11 16 00-0431 LF 1-1/4" Soft Drawn Type K Copper Tube.....	25.38	6.37
For Up To 20, Add	2.93	
For >150, Deduct	-1.58	
For Work In Restricted Working Space, Add	2.86	
22 11 16 00-0432 LF 1-1/2" Soft Drawn Type K Copper Tube.....	32.66	7.11
For Up To 20, Add	3.82	
For >150, Deduct	-2.20	
For Work In Restricted Working Space, Add	3.20	
22 11 16 00-0433 LF 2" Soft Drawn Type K Copper Tube.....	47.35	8.77
For Up To 20, Add	5.59	
For >150, Deduct	-3.42	
For Work In Restricted Working Space, Add	3.94	
22 11 16 00-0434 LF 2-1/2" Soft Drawn Type K Copper Tube.....	67.07	10.52
For Up To 20, Add	7.99	
For >150, Deduct	-5.13	
For Work In Restricted Working Space, Add	4.73	
22 11 16 00-0435 LF 3" Soft Drawn Type K Copper Tube.....	90.00	12.41
For Up To 20, Add	10.78	
For >150, Deduct	-7.14	
For Work In Restricted Working Space, Add	5.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0436 Copper And Brass Fittings (22 11 16 00-0368) Note: All fittings are based on 95/5 solder.		
22 11 16 00-0437 90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0438 EA 1/4" 90 Degree Copper Elbow .....33.56	33.56	19.64
For Silver Solder Instead Of 95/5 Solder, Add	4.62	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.15	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.41	
For Street Fitting, Add	1.65	
For Work In Restricted Working Space, Add	8.83	
22 11 16 00-0439 EA 3/8" 90 Degree Copper Elbow .....39.69	39.69	23.55
For Silver Solder Instead Of 95/5 Solder, Add	5.52	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.75	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.30	
For Street Fitting, Add	1.75	
For Work In Restricted Working Space, Add	10.60	
22 11 16 00-0440 EA 1/2" 90 Degree Copper Elbow .....49.98	49.98	32.37
For Silver Solder Instead Of 95/5 Solder, Add	7.36	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.93	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.28	
For Street Fitting, Add	0.57	
For Work In Restricted Working Space, Add	14.57	
22 11 16 00-0441 EA 3/4" 90 Degree Copper Elbow .....63.52	63.52	40.32
For Silver Solder Instead Of 95/5 Solder, Add	9.21	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.19	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.05	
For Street Fitting, Add	1.28	
For Work In Restricted Working Space, Add	18.10	
22 11 16 00-0442 EA 1" 90 Degree Copper Elbow .....79.90	79.90	48.12
For Silver Solder Instead Of 95/5 Solder, Add	11.21	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.60	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.82	
For Street Fitting, Add	3.12	
For Work In Restricted Working Space, Add	21.63	
22 11 16 00-0443 EA 1-1/4" 90 Degree Copper Elbow .....89.64	89.64	52.09
For Silver Solder Instead Of 95/5 Solder, Add	12.28	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.38	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.70	
For Street Fitting, Add	4.66	
For Work In Restricted Working Space, Add	23.40	
22 11 16 00-0444 EA 1-1/2" 90 Degree Copper Elbow .....103.56	103.56	56.95
For Silver Solder Instead Of 95/5 Solder, Add	13.71	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.45	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.80	
For Street Fitting, Add	7.28	
For Work In Restricted Working Space, Add	25.61	
22 11 16 00-0445 EA 2" 90 Degree Copper Elbow .....128.85	128.85	63.86
For Silver Solder Instead Of 95/5 Solder, Add	16.01	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.23	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.35	
For Street Fitting, Add	13.28	
For Work In Restricted Working Space, Add	28.70	
22 11 16 00-0446 EA 2-1/2" 90 Degree Copper Elbow .....162.65	162.65	65.03
For Silver Solder Instead Of 95/5 Solder, Add	17.89	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.01	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.63	
For Work In Restricted Working Space, Add	29.27	
22 11 16 00-0447 EA 3" 90 Degree Copper Elbow .....208.32	208.32	77.77
For Silver Solder Instead Of 95/5 Solder, Add	22.07	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.24	
For Brazed Fittings Instead Of 95/5 Solder, Add	17.48	
For Work In Restricted Working Space, Add	34.96	
22 11 16 00-0448 EA 4" 90 Degree Copper Elbow .....388.03	388.03	110.29
For Silver Solder Instead Of 95/5 Solder, Add	35.93	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-27.67	
For Brazed Fittings Instead Of 95/5 Solder, Add	24.79	
For Work In Restricted Working Space, Add	49.59	
22 11 16 00-0449 EA 5" 90 Degree Copper Elbow .....1,159.40	1,159.40	150.93
For Silver Solder Instead Of 95/5 Solder, Add	80.60	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-69.28	
For Brazed Fittings Instead Of 95/5 Solder, Add	33.94	
For Work In Restricted Working Space, Add	67.88	
22 11 16 00-0450 EA 6" 90 Degree Copper Elbow .....1,573.19	1,573.19	219.63
For Silver Solder Instead Of 95/5 Solder, Add	111.58	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-95.12	
For Brazed Fittings Instead Of 95/5 Solder, Add	49.39	
For Work In Restricted Working Space, Add	98.77	
22 11 16 00-0451 EA 8" 90 Degree Copper Elbow .....5,040.94	5,040.94	292.79
For Silver Solder Instead Of 95/5 Solder, Add	295.95	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-274.00	
For Brazed Fittings Instead Of 95/5 Solder, Add	65.85	
For Work In Restricted Working Space, Add	131.69	
22 11 16 00-0452 90 Degree Brass Elbows (22 11 16 00-0436)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0453 EA 1/2" Drop Ear 90 Degree Brass Elbow.....	57.45	32.37
For Silver Solder Instead Of 95/5 Solder, Add	7.73	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.30	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.28	
For Work In Restricted Working Space, Add	14.57	
22 11 16 00-0454 EA 3/4" Drop Ear 90 Degree Brass Elbow.....	86.25	40.32
For Silver Solder Instead Of 95/5 Solder, Add	10.35	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.33	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.05	
For Work In Restricted Working Space, Add	18.10	
22 11 16 00-0455 EA 1/2" Flanged Sink 90 Degree Brass Elbow.....	64.77	32.37
For Silver Solder Instead Of 95/5 Solder, Add	8.09	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.67	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.28	
For Work In Restricted Working Space, Add	14.57	
22 11 16 00-0456 EA 3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	48.61	23.55
For Silver Solder Instead Of 95/5 Solder, Add	5.96	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.20	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.30	
For Work In Restricted Working Space, Add	10.60	
22 11 16 00-0457 EA 1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	58.08	32.37
For Silver Solder Instead Of 95/5 Solder, Add	7.76	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.33	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.28	
For Work In Restricted Working Space, Add	14.57	
22 11 16 00-0458 EA 3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	77.09	40.32
For Silver Solder Instead Of 95/5 Solder, Add	9.89	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.87	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.05	
For Work In Restricted Working Space, Add	18.10	
22 11 16 00-0459 EA 1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	125.60	48.12
For Silver Solder Instead Of 95/5 Solder, Add	13.49	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.89	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.82	
For Work In Restricted Working Space, Add	21.63	
22 11 16 00-0460 Reducing 90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0461 EA 1/2" Reducing 90 Degree Copper Elbow	60.05	32.37
For Silver Solder Instead Of 95/5 Solder, Add	7.86	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.43	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.28	
For Work In Restricted Working Space, Add	14.57	
22 11 16 00-0462 EA 3/4" Reducing 90 Degree Copper Elbow	68.47	40.32
For Silver Solder Instead Of 95/5 Solder, Add	9.46	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.44	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.05	
For Work In Restricted Working Space, Add	18.10	
22 11 16 00-0463 EA 1" Reducing 90 Degree Copper Elbow	87.06	48.12
For Silver Solder Instead Of 95/5 Solder, Add	11.56	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.96	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.82	
For Work In Restricted Working Space, Add	21.63	
22 11 16 00-0464 EA 1-1/4" Reducing 90 Degree Copper Elbow	116.07	52.09
For Silver Solder Instead Of 95/5 Solder, Add	13.60	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.70	
For Work In Restricted Working Space, Add	23.40	
22 11 16 00-0465 EA 1-1/2" Reducing 90 Degree Copper Elbow	135.38	56.95
For Silver Solder Instead Of 95/5 Solder, Add	15.30	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.04	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.80	
For Work In Restricted Working Space, Add	25.61	
22 11 16 00-0466 EA 2" Reducing 90 Degree Copper Elbow	162.99	63.86
For Silver Solder Instead Of 95/5 Solder, Add	17.71	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.93	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.35	
For Work In Restricted Working Space, Add	28.70	
22 11 16 00-0467 45 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0468 EA 1/4" 45 Degree Copper Elbow	37.14	19.64
For Silver Solder Instead Of 95/5 Solder, Add	4.80	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.33	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.41	
For Street Fitting, Add	3.08	
For Work In Restricted Working Space, Add	8.83	
22 11 16 00-0469 EA 3/8" 45 Degree Copper Elbow	41.93	23.55
For Silver Solder Instead Of 95/5 Solder, Add	5.63	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.86	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.30	
For Street Fitting, Add	2.64	
For Work In Restricted Working Space, Add	10.60	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0470 EA 1/2" 45 Degree Copper Elbow	51.16	32.37
For Silver Solder Instead Of 95/5 Solder, Add	7.41	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.99	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.28	
For Street Fitting, Add	1.04	
For Work In Restricted Working Space, Add	14.57	
22 11 16 00-0471 EA 3/4" 45 Degree Copper Elbow	64.77	40.32
For Silver Solder Instead Of 95/5 Solder, Add	9.27	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.26	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.05	
For Street Fitting, Add	1.78	
For Work In Restricted Working Space, Add	18.10	
22 11 16 00-0472 EA 1" 45 Degree Copper Elbow	83.20	48.12
For Silver Solder Instead Of 95/5 Solder, Add	11.37	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.77	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.82	
For Street Fitting, Add	4.44	
For Work In Restricted Working Space, Add	21.63	
22 11 16 00-0473 EA 1-1/4" 45 Degree Copper Elbow	93.03	52.09
For Silver Solder Instead Of 95/5 Solder, Add	12.45	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.55	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.70	
For Street Fitting, Add	6.01	
For Work In Restricted Working Space, Add	23.40	
22 11 16 00-0474 EA 1-1/2" 45 Degree Copper Elbow	103.80	56.95
For Silver Solder Instead Of 95/5 Solder, Add	13.73	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.80	
For Street Fitting, Add	7.38	
For Work In Restricted Working Space, Add	25.61	
22 11 16 00-0475 EA 2" 45 Degree Copper Elbow	126.41	63.86
For Silver Solder Instead Of 95/5 Solder, Add	15.89	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.10	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.35	
For Work In Restricted Working Space, Add	28.70	
22 11 16 00-0476 EA 2-1/2" 45 Degree Copper Elbow	161.86	65.03
For Silver Solder Instead Of 95/5 Solder, Add	17.85	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.97	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.63	
For Work In Restricted Working Space, Add	29.27	
22 11 16 00-0477 EA 3" 45 Degree Copper Elbow	211.94	77.77
For Silver Solder Instead Of 95/5 Solder, Add	22.25	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.42	
For Brazed Fittings Instead Of 95/5 Solder, Add	17.48	
For Work In Restricted Working Space, Add	34.96	
22 11 16 00-0478 EA 4" 45 Degree Copper Elbow	368.76	110.29
For Silver Solder Instead Of 95/5 Solder, Add	34.97	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-26.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	24.79	
For Work In Restricted Working Space, Add	49.59	
22 11 16 00-0479 EA 5" 45 Degree Copper Elbow	1,014.26	150.93
For Silver Solder Instead Of 95/5 Solder, Add	73.34	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-62.03	
For Brazed Fittings Instead Of 95/5 Solder, Add	33.94	
For Work In Restricted Working Space, Add	67.88	
22 11 16 00-0480 EA 6" 45 Degree Copper Elbow	1,571.06	219.63
For Silver Solder Instead Of 95/5 Solder, Add	111.48	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-95.02	
For Brazed Fittings Instead Of 95/5 Solder, Add	49.39	
For Work In Restricted Working Space, Add	98.77	
22 11 16 00-0481 EA 8" 45 Degree Copper Elbow	4,658.62	292.79
For Silver Solder Instead Of 95/5 Solder, Add	276.83	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-254.88	
For Brazed Fittings Instead Of 95/5 Solder, Add	65.85	
For Work In Restricted Working Space, Add	131.69	
22 11 16 00-0482 Straight Copper And Brass Tees (22 11 16 00-0436)		
22 11 16 00-0483 EA 1/4" Straight Copper Tee	52.80	29.43
For Silver Solder Instead Of 95/5 Solder, Add	7.06	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.85	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.62	
For Work In Restricted Working Space, Add	13.25	
22 11 16 00-0484 EA 3/8" Straight Copper Tee	59.94	35.32
For Silver Solder Instead Of 95/5 Solder, Add	8.30	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.95	
For Work In Restricted Working Space, Add	15.89	
22 11 16 00-0485 EA 1/2" Straight Copper Tee	76.02	49.15
For Silver Solder Instead Of 95/5 Solder, Add	11.16	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.48	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.04	
For Work In Restricted Working Space, Add	22.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0486	EA		3/4" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	97.06 13.98 -9.42 13.69 27.37	60.93
22 11 16 00-0487	EA		1" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	126.40 17.21 -11.77 16.34 32.67	72.70
22 11 16 00-0488	EA		1-1/4" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	142.11 18.88 -12.99 17.66 35.32	78.58
22 11 16 00-0489	EA		1-1/2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	164.92 21.05 -14.65 19.20 38.41	85.35
22 11 16 00-0490	EA		2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	202.87 24.57 -17.35 21.63 43.27	96.24
22 11 16 00-0491	EA		2-1/2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	262.35 27.75 -20.43 21.95 43.90	97.55
22 11 16 00-0492	EA		3" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	353.40 35.28 -26.48 26.42 52.84	117.47
22 11 16 00-0493	EA		4" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	675.63 58.44 -46.11 36.99 73.98	164.48
22 11 16 00-0494	EA		5" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,739.90 120.73 -103.86 50.60 101.21	225.05
22 11 16 00-0495	EA		6" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,411.78 170.04 -145.32 74.18 148.36	329.91
22 11 16 00-0496	EA		8" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,054.18 468.56 -435.63 98.77 197.54	439.25
22 11 16 00-0497	EA		1/2" Cast Bronze Drop Ear Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.57 11.79 -8.11 11.04 22.07	49.15
22 11 16 00-0498			Reducing Copper Tees (22 11 16 00-0436)		
22 11 16 00-0499	EA		3/8" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.86 7.75 -5.40 7.06 14.13	31.35
22 11 16 00-0500	EA		1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.34 10.54 -7.23 9.93 19.87	44.15
22 11 16 00-0501	EA		3/4" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.53 13.11 -8.84 12.80 25.61	56.95
22 11 16 00-0502	EA		1" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	122.64 16.43 -11.28 15.45 30.90	68.72

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0503	EA		1-1/4" Reducing Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	141.62 18.27 -12.67 16.78 33.55	74.61
22 11 16 00-0504	EA		1-1/2" Reducing Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	164.24 20.43 -14.32 18.32 36.65	81.53
22 11 16 00-0505	EA		2" Reducing Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	197.71 23.57 -16.73 20.53 41.06	91.24
22 11 16 00-0506	EA		2-1/2" Reducing Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	268.02 27.49 -20.45 21.14 42.27	94.03
22 11 16 00-0507	EA		3" Reducing Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	371.33 34.83 -26.70 24.39 48.78	108.39
22 11 16 00-0508	EA		4" Reducing Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	639.96 52.05 -42.02 30.08 60.16	133.73
22 11 16 00-0509			Copper Couplings (22 11 16 00-0436)		
22 11 16 00-0510	EA		1/4" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	30.26 4.46 -2.98 4.41 8.83	19.64
22 11 16 00-0511	EA		3/8" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	36.42 5.35 -3.59 5.30 10.60	23.55
22 11 16 00-0512	EA		1/2" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	49.46 7.33 -4.90 7.28 14.57	32.37
22 11 16 00-0513	EA		3/4" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	62.18 9.14 -6.13 9.05 18.10	40.32
22 11 16 00-0514	EA		1" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	75.77 11.00 -7.39 10.82 21.63	48.12
22 11 16 00-0515	EA		1-1/4" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	84.45 12.02 -8.12 11.70 23.40	52.09
22 11 16 00-0516	EA		1-1/2" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	93.89 13.23 -8.96 12.80 25.61	56.95
22 11 16 00-0517	EA		2" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	109.85 15.06 -10.28 14.35 28.70	63.28
22 11 16 00-0518	EA		2-1/2" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	121.32 15.28 -10.67 13.82 27.64	61.51
22 11 16 00-0519	EA		3" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	150.83 18.65 -13.10 16.67 33.33	74.52



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	Plumbing Piping	22 10
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0520	EA		4" Copper Coupling.....	236.56	100.26
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	26.73	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-19.28	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	22.36	
			<i>For Work In Restricted Working Space, Add</i>	44.71	
22 11 16 00-0521	EA		5" Copper Coupling.....	385.62	182.90
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	39.60	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-29.44	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	30.48	
			<i>For Work In Restricted Working Space, Add</i>	60.97	
22 11 16 00-0522	EA		6" Copper Coupling.....	599.49	198.75
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	59.78	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-44.88	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	44.71	
			<i>For Work In Restricted Working Space, Add</i>	89.42	
22 11 16 00-0523	EA		8" Copper Coupling.....	1,372.65	263.52
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	108.19	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-88.41	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	59.34	
			<i>For Work In Restricted Working Space, Add</i>	118.69	
22 11 16 00-0524			Reducing Copper Couplings (22 11 16 00-0436)		
22 11 16 00-0525	EA		3/8" Reducing Copper Coupling	31.24	19.58
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.51	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.03	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.41	
			<i>For Work In Restricted Working Space, Add</i>	8.83	
22 11 16 00-0526	EA		1/2" Reducing Copper Coupling	43.84	27.96
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.39	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.29	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.29	
			<i>For Work In Restricted Working Space, Add</i>	12.59	
22 11 16 00-0527	EA		3/4" Reducing Copper Coupling	57.71	36.35
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.33	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.61	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.17	
			<i>For Work In Restricted Working Space, Add</i>	16.34	
22 11 16 00-0528	EA		1" Reducing Copper Coupling	72.13	44.15
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.23	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.92	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.93	
			<i>For Work In Restricted Working Space, Add</i>	19.87	
22 11 16 00-0529	EA		1-1/4" Reducing Copper Coupling	83.27	50.04
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.67	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.92	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.26	
			<i>For Work In Restricted Working Space, Add</i>	22.52	
22 11 16 00-0530	EA		1-1/2" Reducing Copper Coupling	95.28	54.45
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.93	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.85	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.25	
			<i>For Work In Restricted Working Space, Add</i>	24.50	
22 11 16 00-0531	EA		2" Reducing Copper Coupling	111.55	60.33
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.63	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.10	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.58	
			<i>For Work In Restricted Working Space, Add</i>	27.15	
22 11 16 00-0532	EA		2-1/2" Reducing Copper Coupling	136.11	61.92
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.09	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.45	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.92	
			<i>For Work In Restricted Working Space, Add</i>	27.84	
22 11 16 00-0533	EA		3" Reducing Copper Coupling	160.57	71.80
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	18.73	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.38	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.06	
			<i>For Work In Restricted Working Space, Add</i>	32.11	
22 11 16 00-0534	EA		4" Reducing Copper Coupling	247.19	94.03
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	26.45	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-19.41	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	21.14	
			<i>For Work In Restricted Working Space, Add</i>	42.27	
22 11 16 00-0535	EA		5" Reducing Copper Coupling	612.04	131.01
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	50.25	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-40.42	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	29.47	
			<i>For Work In Restricted Working Space, Add</i>	58.94	
22 11 16 00-0536	EA		6" Reducing Copper Coupling	907.77	176.13
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	71.81	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-58.60	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	39.63	
			<i>For Work In Restricted Working Space, Add</i>	79.26	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0537 EA 8" Reducing Copper Coupling.....	1,749.09	256.66
For Silver Solder Instead Of 95/5 Solder, Add	125.93	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-106.69	
For Brazed Fittings Instead Of 95/5 Solder, Add	57.72	
For Work In Restricted Working Space, Add	115.44	
22 11 16 00-0538 Male Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0539 EA 1/4" Male Copper Adapter.....	44.02	19.13
For Silver Solder Instead Of 95/5 Solder, Add	5.14	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.67	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.41	
For Work In Restricted Working Space, Add	8.83	
22 11 16 00-0540 EA 3/8" Male Copper Adapter.....	42.60	23.55
For Silver Solder Instead Of 95/5 Solder, Add	5.66	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.90	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.30	
For Work In Restricted Working Space, Add	10.60	
22 11 16 00-0541 EA 1/2" Male Copper Adapter.....	47.10	29.43
For Silver Solder Instead Of 95/5 Solder, Add	6.77	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.56	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.62	
For Work In Restricted Working Space, Add	13.25	
22 11 16 00-0542 EA 3/4" Male Copper Adapter.....	59.45	36.79
For Silver Solder Instead Of 95/5 Solder, Add	8.42	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.17	
For Work In Restricted Working Space, Add	16.34	
22 11 16 00-0543 EA 1" Male Copper Adapter.....	75.98	42.68
For Silver Solder Instead Of 95/5 Solder, Add	10.13	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.96	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.49	
For Work In Restricted Working Space, Add	18.98	
22 11 16 00-0544 EA 1-1/4" Male Copper Adapter.....	92.07	48.56
For Silver Solder Instead Of 95/5 Solder, Add	11.96	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.28	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.04	
For Work In Restricted Working Space, Add	22.07	
22 11 16 00-0545 EA 1-1/2" Male Copper Adapter.....	105.51	55.92
For Silver Solder Instead Of 95/5 Solder, Add	13.66	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.47	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.58	
For Work In Restricted Working Space, Add	25.16	
22 11 16 00-0546 EA 2" Male Copper Adapter.....	144.05	71.37
For Silver Solder Instead Of 95/5 Solder, Add	17.95	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.57	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.11	
For Work In Restricted Working Space, Add	32.23	
22 11 16 00-0547 EA 2-1/2" Male Copper Adapter.....	254.79	92.71
For Silver Solder Instead Of 95/5 Solder, Add	26.57	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	20.75	
For Work In Restricted Working Space, Add	41.50	
22 11 16 00-0548 EA 3" Male Copper Adapter.....	338.45	123.63
For Silver Solder Instead Of 95/5 Solder, Add	35.35	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-26.14	
For Brazed Fittings Instead Of 95/5 Solder, Add	27.64	
For Work In Restricted Working Space, Add	55.28	
22 11 16 00-0549 EA 4" Male Copper Adapter.....	506.72	173.42
For Silver Solder Instead Of 95/5 Solder, Add	51.35	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-38.34	
For Brazed Fittings Instead Of 95/5 Solder, Add	39.02	
For Work In Restricted Working Space, Add	78.04	
22 11 16 00-0550 Female Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0551 EA 1/4" Female Copper Adapter.....	38.75	19.13
For Silver Solder Instead Of 95/5 Solder, Add	4.88	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.41	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.41	
For Work In Restricted Working Space, Add	8.83	
22 11 16 00-0552 EA 3/8" Female Copper Adapter.....	45.07	23.55
For Silver Solder Instead Of 95/5 Solder, Add	5.79	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.02	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.30	
For Work In Restricted Working Space, Add	10.60	
22 11 16 00-0553 EA 1/2" Female Copper Adapter.....	48.87	29.43
For Silver Solder Instead Of 95/5 Solder, Add	6.86	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.62	
For Work In Restricted Working Space, Add	13.25	
22 11 16 00-0554 EA 3/4" Female Copper Adapter.....	60.90	36.79
For Silver Solder Instead Of 95/5 Solder, Add	8.49	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.77	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.17	
For Work In Restricted Working Space, Add	16.34	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0555	EA			1" Female Copper Adapter.....	78.03	42.68
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.23	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.07	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.49	
				<i>For Work In Restricted Working Space, Add</i>	18.98	
22 11 16 00-0556	EA			1-1/4" Female Copper Adapter.....	95.21	48.56
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.12	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.44	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.04	
				<i>For Work In Restricted Working Space, Add</i>	22.07	
22 11 16 00-0557	EA			1-1/2" Female Copper Adapter.....	117.75	55.92
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.28	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.08	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.58	
				<i>For Work In Restricted Working Space, Add</i>	25.16	
22 11 16 00-0558	EA			2" Female Copper Adapter.....	153.37	71.37
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	18.41	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.04	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.11	
				<i>For Work In Restricted Working Space, Add</i>	32.23	
22 11 16 00-0559	EA			2-1/2" Female Copper Adapter.....	291.68	85.36
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	27.32	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.95	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	19.10	
				<i>For Work In Restricted Working Space, Add</i>	38.21	
22 11 16 00-0560	EA			3" Female Copper Adapter.....	461.09	123.63
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	41.48	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-32.27	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	27.64	
				<i>For Work In Restricted Working Space, Add</i>	55.28	
22 11 16 00-0561				Wrot Copper, Solder Union (22 11 16 00-0436)		
22 11 16 00-0562	EA			1/4" Wrot Copper, Solder Union.....	55.90	23.55
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.33	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.56	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.30	
				<i>For Work In Restricted Working Space, Add</i>	10.60	
22 11 16 00-0563	EA			3/8" Wrot Copper, Solder Union.....	63.88	28.40
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.46	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.33	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.40	
				<i>For Work In Restricted Working Space, Add</i>	12.80	
22 11 16 00-0564	EA			1/2" Wrot Copper, Solder Union.....	66.09	35.32
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.60	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.95	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.95	
				<i>For Work In Restricted Working Space, Add</i>	15.89	
22 11 16 00-0565	EA			3/4" Wrot Copper, Solder Union.....	76.45	40.32
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.86	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.84	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.05	
				<i>For Work In Restricted Working Space, Add</i>	18.10	
22 11 16 00-0566	EA			1" Wrot Copper, Solder Union.....	99.81	48.12
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.20	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.60	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.82	
				<i>For Work In Restricted Working Space, Add</i>	21.63	
22 11 16 00-0567	EA			1-1/4" Wrot Copper, Solder Union.....	119.58	52.98
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.93	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.95	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.92	
				<i>For Work In Restricted Working Space, Add</i>	23.84	
22 11 16 00-0568	EA			1-1/2" Wrot Copper, Solder Union.....	144.85	58.87
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.07	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.66	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.25	
				<i>For Work In Restricted Working Space, Add</i>	26.49	
22 11 16 00-0569	EA			2" Wrot Copper, Solder Union.....	202.35	70.64
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	20.71	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-15.42	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.89	
				<i>For Work In Restricted Working Space, Add</i>	31.79	
22 11 16 00-0570	EA			2-1/2" Wrot Copper, Solder Union.....	379.39	77.77
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	30.62	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-24.80	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	17.48	
				<i>For Work In Restricted Working Space, Add</i>	34.96	
22 11 16 00-0571	EA			3" Wrot Copper, Solder Union.....	845.53	110.29
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	58.81	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-50.54	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	24.79	
				<i>For Work In Restricted Working Space, Add</i>	49.59	
22 11 16 00-0572				Cast Bronze, Solder Union (22 11 16 00-0436)		

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0573	EA	1/4"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	63.49 6.77 -4.94 5.30 10.60	23.55
22 11 16 00-0574	EA	3/8"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	71.04 7.82 -5.69 6.40 12.80	28.40
22 11 16 00-0575	EA	1/2"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	68.08 8.70 -6.05 7.95 15.89	35.32
22 11 16 00-0576	EA	3/4"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	79.26 10.00 -6.98 9.05 18.10	40.32
22 11 16 00-0577	EA	1"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	104.70 12.45 -8.84 10.82 21.63	48.12
22 11 16 00-0578	EA	1-1/4"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	132.95 14.59 -10.62 11.92 23.84	52.98
22 11 16 00-0579	EA	1-1/2"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	158.80 16.77 -12.36 13.25 26.49	58.87
22 11 16 00-0580	EA	2"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	226.10 21.90 -16.60 15.89 31.79	70.64
22 11 16 00-0581	EA	2-1/2"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	379.37 30.62 -24.79 17.48 34.96	77.77
22 11 16 00-0582	EA	3"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	845.53 58.81 -50.54 24.79 49.59	110.29
22 11 16 00-0583			Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0496)		
22 11 16 00-0584	EA	1/4"	Cast Bronze, Solder X Female Threaded Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	73.74 7.22 -5.45 5.30 10.60	23.55
22 11 16 00-0585	EA	3/8"	Cast Bronze, Solder X Female Threaded Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	82.43 8.39 -6.26 6.40 12.80	28.40
22 11 16 00-0586	EA	1/2"	Cast Bronze, Solder X Female Threaded Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	84.55 9.53 -6.88 7.95 15.89	35.32
22 11 16 00-0587	EA	3/4"	Cast Bronze, Solder X Female Threaded Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	103.36 11.20 -8.18 9.05 18.10	40.32
22 11 16 00-0588	EA	1"	Cast Bronze, Solder X Female Threaded Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	161.62 15.29 -11.69 10.82 21.63	48.12
22 11 16 00-0589	EA	1-1/4"	Cast Bronze, Solder X Female Threaded Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	246.28 20.26 -16.29 11.92 23.84	52.98



	Plumbing 22	
	Plumbing Piping 22 10	22
	Facility Water Distribution 22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0590	EA		1-1/2" Cast Bronze, Solder X Female Threaded Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	299.63 23.81 -19.40 13.25 26.49	58.87
22 11 16 00-0591	EA		2" Cast Bronze, Solder X Female Threaded Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	463.68 33.78 -28.48 15.89 31.79	70.64
22 11 16 00-0592	EA		2-1/2" Cast Bronze, Solder X Female Threaded Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	794.64 51.38 -45.56 17.48 34.96	77.77
22 11 16 00-0593 Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0436)					
22 11 16 00-0594	EA		1/4" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.58 6.76 -5.00 5.30 10.60	23.55
22 11 16 00-0595	EA		3/8" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.83 8.11 -5.98 6.40 12.80	28.40
22 11 16 00-0596	EA		1/2" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	77.90 9.19 -6.54 7.95 15.89	35.32
22 11 16 00-0597	EA		3/4" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	97.73 10.92 -7.90 9.05 18.10	40.32
22 11 16 00-0598	EA		1" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	164.20 15.42 -11.82 10.82 21.63	48.12
22 11 16 00-0599	EA		1-1/4" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	193.70 17.63 -13.66 11.92 23.84	52.98
22 11 16 00-0600	EA		1-1/2" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	208.28 19.24 -14.83 13.25 26.49	58.87
22 11 16 00-0601	EA		2" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	290.26 25.11 -19.81 15.89 31.79	70.64
22 11 16 00-0602	EA		2-1/2" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	656.62 44.48 -38.66 17.48 34.96	77.77
22 11 16 00-0603 Copper Caps (22 11 16 00-0436)					
22 11 16 00-0604	EA		1/4" Copper Cap <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	10.97 1.52 -1.03 1.46 2.91	6.47
22 11 16 00-0605	EA		3/8" Copper Cap <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.66 1.85 -1.27 1.75 3.50	7.65
22 11 16 00-0606	EA		1/2" Copper Cap <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.05 2.46 -1.65 2.40 4.81	10.60
22 11 16 00-0607	EA		3/4" Copper Cap <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.84 3.08 -2.09 2.99 5.97	13.10

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0608 EA 1" Copper Cap	28.32	15.74
For Silver Solder Instead Of 95/5 Solder, Add	3.80	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.61	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.57	
For Work In Restricted Working Space, Add	7.14	
22 11 16 00-0609 EA 1-1/4" Copper Cap	31.80	16.92
For Silver Solder Instead Of 95/5 Solder, Add	4.16	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.88	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.86	
For Work In Restricted Working Space, Add	7.72	
22 11 16 00-0610 EA 1-1/2" Copper Cap	36.97	18.54
For Silver Solder Instead Of 95/5 Solder, Add	4.66	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.26	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.22	
For Work In Restricted Working Space, Add	8.45	
22 11 16 00-0611 EA 2" Copper Cap	45.34	19.24
For Silver Solder Instead Of 95/5 Solder, Add	5.17	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.72	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.36	
For Work In Restricted Working Space, Add	8.72	
22 11 16 00-0612 EA 2-1/2" Copper Cap	82.92	22.49
For Silver Solder Instead Of 95/5 Solder, Add	7.56	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.85	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.12	
For Work In Restricted Working Space, Add	10.25	
22 11 16 00-0613 EA 3" Copper Cap	113.55	28.86
For Silver Solder Instead Of 95/5 Solder, Add	10.05	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.86	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.55	
For Work In Restricted Working Space, Add	13.11	
22 11 16 00-0614 EA 4" Copper Cap	197.96	43.63
For Silver Solder Instead Of 95/5 Solder, Add	16.51	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.20	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.92	
For Work In Restricted Working Space, Add	19.84	
22 11 16 00-0615 EA 5" Cast Bronze Cap	1,028.58	67.20
For Silver Solder Instead Of 95/5 Solder, Add	61.61	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-56.52	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.27	
For Work In Restricted Working Space, Add	30.55	
22 11 16 00-0616 EA 6" Cast Bronze Cap	1,994.60	97.82
For Silver Solder Instead Of 95/5 Solder, Add	114.55	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-107.14	
For Brazed Fittings Instead Of 95/5 Solder, Add	22.22	
For Work In Restricted Working Space, Add	44.45	
22 11 16 00-0617 EA 8" Cast Bronze Cap	2,540.96	130.34
For Silver Solder Instead Of 95/5 Solder, Add	146.80	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-136.93	
For Brazed Fittings Instead Of 95/5 Solder, Add	29.63	
For Work In Restricted Working Space, Add	59.26	
22 11 16 00-0618 Copper Crosses (22 11 16 00-0436)		
22 11 16 00-0619 EA 1/2" Copper Cross	105.65	59.61
For Silver Solder Instead Of 95/5 Solder, Add	14.23	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.75	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.41	
For Work In Restricted Working Space, Add	26.83	
22 11 16 00-0620 EA 3/4" Copper Cross	142.64	74.11
For Silver Solder Instead Of 95/5 Solder, Add	18.24	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.69	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.67	
For Work In Restricted Working Space, Add	33.33	
22 11 16 00-0621 EA 1" Copper Cross	186.34	88.47
For Silver Solder Instead Of 95/5 Solder, Add	22.59	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.96	
For Brazed Fittings Instead Of 95/5 Solder, Add	19.92	
For Work In Restricted Working Space, Add	39.83	
22 11 16 00-0622 EA 1-1/4" Copper Cross	220.61	95.79
For Silver Solder Instead Of 95/5 Solder, Add	25.39	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-18.21	
For Brazed Fittings Instead Of 95/5 Solder, Add	21.54	
For Work In Restricted Working Space, Add	43.09	
22 11 16 00-0623 EA 1-1/2" Copper Cross	266.91	104.73
For Silver Solder Instead Of 95/5 Solder, Add	29.06	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-21.20	
For Brazed Fittings Instead Of 95/5 Solder, Add	23.58	
For Work In Restricted Working Space, Add	47.15	
22 11 16 00-0624 EA 2" Copper Cross	383.45	117.47
For Silver Solder Instead Of 95/5 Solder, Add	36.79	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-27.98	
For Brazed Fittings Instead Of 95/5 Solder, Add	26.42	
For Work In Restricted Working Space, Add	52.84	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0625	EA			2-1/2" Copper Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	673.00 53.16 -43.41 29.27 58.53	130.07
22 11 16 00-0626				Cast Bronze Crosses (22 11 16 00-0436)		
22 11 16 00-0627	EA			3/8" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	86.66 10.84 -7.58 9.75 19.51	43.36
22 11 16 00-0628	EA			1/2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	108.90 14.39 -9.92 13.41 26.83	59.61
22 11 16 00-0629	EA			3/4" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	148.94 18.56 -13.00 16.67 33.33	74.11
22 11 16 00-0630	EA			1" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	197.04 23.13 -16.49 19.92 39.83	88.47
22 11 16 00-0631	EA			1-1/4" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.01 26.16 -18.98 21.54 43.09	95.79
22 11 16 00-0632	EA			1-1/2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	288.86 30.16 -22.30 23.58 47.15	104.73
22 11 16 00-0633	EA			2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	424.91 38.86 -30.05 26.42 52.84	117.47
22 11 16 00-0634	EA			2-1/2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	768.58 57.94 -48.18 29.27 58.53	130.07
22 11 16 00-0635				Flexible Corrugated Copper Supply Line (22 11 16 00-0436)		
22 11 16 00-0636	EA			3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line	109.11	40.32
22 11 16 00-0637	EA			3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line	114.98	40.32
22 11 16 00-0638	EA			3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line	98.55	40.32
22 11 16 00-0639	EA			3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line	105.20	40.32
22 11 16 00-0640	EA			3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line	111.07	40.32
22 11 16 00-0641	EA			3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line	114.98	40.32
22 11 16 00-0642				Crimped Copper Fittings (22 11 16 00-0368) Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
22 11 16 00-0643				Crimped Copper 90 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0644	EA			1/2" Crimped Copper 90 Degree Elbow	30.70	17.66
22 11 16 00-0645	EA			3/4" Crimped Copper 90 Degree Elbow	37.31	20.16
22 11 16 00-0646	EA			1" Crimped Copper 90 Degree Elbow	50.35	23.99
22 11 16 00-0647	EA			1-1/4" Crimped Copper 90 Degree Elbow	68.61	26.49
22 11 16 00-0648	EA			1-1/2" Crimped Copper 90 Degree Elbow	98.83	29.43
22 11 16 00-0649	EA			2" Crimped Copper 90 Degree Elbow	128.97	35.32
22 11 16 00-0650	EA			2-1/2" Crimped Copper 90 Degree Elbow	282.53	41.20
22 11 16 00-0651	EA			3" Crimped Copper 90 Degree Elbow	351.28	49.00
22 11 16 00-0652	EA			4" Crimped Copper 90 Degree Elbow	440.70	64.75
22 11 16 00-0653				Crimped Copper 45 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0654	EA			1/2" Crimped Copper 45 Degree Elbow	31.40	17.66
22 11 16 00-0655	EA			3/4" Crimped Copper 45 Degree Elbow	36.19	20.16
22 11 16 00-0656	EA			1" Crimped Copper 45 Degree Elbow	55.41	23.99
22 11 16 00-0657	EA			1-1/4" Crimped Copper 45 Degree Elbow	67.49	26.49
22 11 16 00-0658	EA			1-1/2" Crimped Copper 45 Degree Elbow	89.16	29.43
22 11 16 00-0659	EA			2" Crimped Copper 45 Degree Elbow	115.93	35.32
22 11 16 00-0660	EA			2-1/2" Crimped Copper 45 Degree Elbow	207.61	41.20
22 11 16 00-0661	EA			3" Crimped Copper 45 Degree Elbow	281.90	49.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0662 EA 4" Crimped Copper 45 Degree Elbow	386.43	64.75
22 11 16 00-0663 Crimped Copper Straight Tees (22 11 16 00-0642)		
22 11 16 00-0664 EA 1/2" Crimped Copper Straight Tee	46.18	26.49
22 11 16 00-0665 EA 3/4" Crimped Copper Straight Tee	63.59	34.88
22 11 16 00-0666 EA 1" Crimped Copper Straight Tee	78.60	38.70
22 11 16 00-0667 EA 1-1/4" Crimped Copper Straight Tee	94.23	39.73
22 11 16 00-0668 EA 1-1/2" Crimped Copper Straight Tee	134.98	45.18
22 11 16 00-0669 EA 2" Crimped Copper Straight Tee	162.60	52.98
22 11 16 00-0670 EA 2-1/2" Crimped Copper Straight Tee	365.42	61.80
22 11 16 00-0671 EA 3" Crimped Copper Straight Tee	451.25	73.58
22 11 16 00-0672 EA 4" Crimped Copper Straight Tee	623.99	97.12
22 11 16 00-0673 Crimped Copper Reducing Tees (22 11 16 00-0642)		
22 11 16 00-0674 EA 3/4" Crimped Copper Reducing Tee	55.34	25.17
22 11 16 00-0675 EA 1" Crimped Copper Reducing Tee	80.73	33.11
22 11 16 00-0676 EA 1-1/4" Crimped Copper Reducing Tee	86.87	36.79
22 11 16 00-0677 EA 1-1/2" Crimped Copper Reducing Tee	116.38	37.82
22 11 16 00-0678 EA 2" Crimped Copper Reducing Tee	139.88	42.82
22 11 16 00-0679 EA 2-1/2" Crimped Copper Reducing Tee	393.94	48.56
22 11 16 00-0680 EA 3" Crimped Copper Reducing Tee	480.48	58.87
22 11 16 00-0681 EA 4" Crimped Copper Reducing Tee	563.91	78.43
22 11 16 00-0682 Crimped Copper Couplings (22 11 16 00-0642)		
22 11 16 00-0683 EA 1/2" Crimped Copper Coupling	30.28	17.66
22 11 16 00-0684 EA 3/4" Crimped Copper Coupling	35.92	20.16
22 11 16 00-0685 EA 1" Crimped Copper Coupling	47.68	23.99
22 11 16 00-0686 EA 1-1/4" Crimped Copper Coupling	54.18	26.49
22 11 16 00-0687 EA 1-1/2" Crimped Copper Coupling	71.07	29.43
22 11 16 00-0688 EA 2" Crimped Copper Coupling	87.33	35.32
22 11 16 00-0689 EA 2-1/2" Crimped Copper Coupling	171.74	41.20
22 11 16 00-0690 EA 3" Crimped Copper Coupling	213.59	49.00
22 11 16 00-0691 EA 4" Crimped Copper Coupling	291.52	64.75
22 11 16 00-0692 Crimped Copper Reducing Couplings (22 11 16 00-0642)		
22 11 16 00-0693 EA 3/4" Crimped Copper Reducing Coupling	42.42	16.78
22 11 16 00-0694 EA 1" Crimped Copper Reducing Coupling	48.47	19.13
22 11 16 00-0695 EA 1-1/4" Crimped Copper Reducing Coupling	63.03	22.81
22 11 16 00-0696 EA 1-1/2" Crimped Copper Reducing Coupling	80.16	25.17
22 11 16 00-0697 EA 2" Crimped Copper Reducing Coupling	89.61	27.96
22 11 16 00-0698 EA 2-1/2" Crimped Copper FTG x C Reducing Coupling	179.91	33.41
22 11 16 00-0699 EA 3" Crimped Copper FTG x C Reducing Coupling	224.51	39.29
22 11 16 00-0700 EA 4" Crimped Copper FTG x C Reducing Coupling	291.71	51.95
22 11 16 00-0701 Crimped Copper Male Adapters (22 11 16 00-0642)		
22 11 16 00-0702 EA 1/2" Crimped Copper Male Adapter	31.12	17.66
22 11 16 00-0703 EA 3/4" Crimped Copper Male Adapter	38.57	20.16
22 11 16 00-0704 EA 1" Crimped Copper Male Adapter	51.47	23.99
22 11 16 00-0705 EA 1-1/4" Crimped Copper Male Adapter	73.51	26.49
22 11 16 00-0706 EA 1-1/2" Crimped Copper Male Adapter	91.54	29.43
22 11 16 00-0707 EA 2" Crimped Copper Male Adapter	144.24	35.32
22 11 16 00-0708 EA 2-1/2" Crimped Copper Male Adapter	282.53	41.20
22 11 16 00-0709 EA 3" Crimped Copper Male Adapter	351.28	49.00
22 11 16 00-0710 EA 4" Crimped Copper Male Adapter	418.57	64.75
22 11 16 00-0711 Crimped Copper Female Adapters (22 11 16 00-0642)		
22 11 16 00-0712 EA 1/2" Crimped Copper Female Adapter	32.09	17.66
22 11 16 00-0713 EA 3/4" Crimped Copper Female Adapter	39.29	20.16
22 11 16 00-0714 EA 1" Crimped Copper Female Adapter	52.88	23.99
22 11 16 00-0715 EA 1-1/4" Crimped Copper Female Adapter	77.73	26.49
22 11 16 00-0716 EA 1-1/2" Crimped Copper Female Adapter	99.40	29.43
22 11 16 00-0717 EA 2" Crimped Copper Female Adapter	146.77	35.32
22 11 16 00-0718 Crimped Copper Caps (22 11 16 00-0642)		
22 11 16 00-0719 EA 1/2" Crimped Copper Cap	21.37	8.83
22 11 16 00-0720 EA 3/4" Crimped Copper Cap	29.18	10.31
22 11 16 00-0721 EA 1" Crimped Copper Cap	38.83	11.77
22 11 16 00-0722 EA 1-1/4" Crimped Copper Cap	43.84	13.24
22 11 16 00-0723 EA 1-1/2" Crimped Copper Cap	59.96	15.16
22 11 16 00-0724 EA 2" Crimped Copper Cap	71.63	17.66
22 11 16 00-0725 EA 2-1/2" Crimped Copper Cap	175.24	20.60
22 11 16 00-0726 EA 3" Crimped Copper Cap	219.45	24.57
22 11 16 00-0727 EA 4" Crimped Copper Cap	291.97	32.37



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0728		C x F NPT Crimped Bronze Unions <small>(22 11 16 00-0642)</small>		
	EA	1/2" C x F NPT Crimped Bronze Union.....	59.89	23.99
	EA	3/4" C x F NPT Crimped Bronze Union.....	74.86	29.58
	EA	1" C x F NPT Crimped Bronze Union.....	103.89	35.46
	EA	1-1/4" C x F NPT Crimped Bronze Union.....	125.73	40.91
	EA	1-1/2" C x F NPT Crimped Bronze Union.....	160.99	40.03
	EA	2" C x F NPT Crimped Bronze Union.....	220.58	57.98
22 11 16 00-0735		C x C Crimped Bronze Unions <small>(22 11 16 00-0642)</small>		
	EA	1/2" C x C Bronze Crimped Union.....	56.21	17.66
	EA	3/4" C x C Bronze Crimped Union.....	69.14	20.16
	EA	1" C x C Bronze Crimped Union.....	98.29	23.99
	EA	1-1/4" C x C Bronze Crimped Union.....	128.61	26.49
	EA	1-1/2" C x C Bronze Crimped Union.....	164.86	29.43
	EA	2" C x C Bronze Crimped Union.....	250.10	35.32
22 11 16 00-0742		C x Flange Crimped Bronze Flange <small>(22 11 16 00-0642)</small>		
	EA	2-1/2" C x Flange Crimped Bronze Flange.....	483.87	41.20
	EA	3" C x Flange Crimped Bronze Flange.....	527.86	49.00
	EA	4" C x Flange Crimped Bronze Flange.....	605.67	64.75
22 11 16 00-0746		Field Installed FKM Seals <small>(22 11 16 00-0642)</small>		
		Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.		
	EA	1/2" Field Installed FKM Seal.....	9.01	
		Note: To be used in conjunction with fittings.		
	EA	3/4" Field Installed FKM Seal.....	11.36	
		Note: To be used in conjunction with fittings.		
	EA	1" Field Installed FKM Seal.....	13.04	
		Note: To be used in conjunction with fittings.		
	EA	1-1/4" Field Installed FKM Seal.....	14.98	
		Note: To be used in conjunction with fittings.		
	EA	1-1/2" Field Installed FKM Seal.....	20.94	
		Note: To be used in conjunction with fittings.		
	EA	2" Field Installed FKM Seal.....	23.33	
		Note: To be used in conjunction with fittings.		
	EA	2-1/2" Field Installed FKM Seal.....	34.66	
		Note: To be used in conjunction with fittings.		
	EA	3" Field Installed FKM Seal.....	39.84	
		Note: To be used in conjunction with fittings.		
	EA	4" Field Installed FKM Seal.....	54.27	
		Note: To be used in conjunction with fittings.		
22 11 16 00-0756		Cut And Prepare Existing In-Place Copper Pipe <small>(22 11 16 00-0368)</small>		
	EA	Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	14.72	
	EA	3/4", Cut And Prepare Existing In Place Copper Pipe.....	15.90	
	EA	1", Cut And Prepare Existing In Place Copper Pipe.....	17.88	
	EA	1-1/4", Cut And Prepare Existing In Place Copper Pipe.....	18.76	
	EA	1-1/2", Cut And Prepare Existing In Place Copper Pipe.....	19.87	
	EA	2", Cut And Prepare Existing In Place Copper Pipe.....	21.86	
	EA	2-1/2", Cut And Prepare Existing In Place Copper Pipe.....	23.55	
	EA	3", Cut And Prepare Existing In Place Copper Pipe.....	27.81	
	EA	4", Cut And Prepare Existing In Place Copper Pipe.....	37.52	
	EA	6", Cut And Prepare Existing In Place Copper Pipe.....	53.63	
	EA	8", Cut And Prepare Existing In Place Copper Pipe.....	71.52	
22 11 16 00-0768		Sweat Brass Companion Flanges <small>(22 11 16 00-0368)</small>		
		Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
	EA	1" Sweat Brass Companion Flange.....	78.65	22.63
	EA	1-1/4" Sweat Brass Companion Flange.....	85.86	24.93
	EA	1-1/2" Sweat Brass Companion Flange.....	121.68	27.10
	EA	2" Sweat Brass Companion Flange.....	162.04	30.07
	EA	2-1/2" Sweat Brass Companion Flange.....	204.61	36.18
	EA	3" Sweat Brass Companion Flange.....	226.79	47.42
	EA	4" Sweat Brass Companion Flange.....	301.89	56.50
	EA	5" Sweat Brass Companion Flange.....	559.20	63.76
	EA	6" Sweat Brass Companion Flange.....	647.16	92.64
	EA	8" Copper Companion Flange.....	1,482.43	132.14
22 11 16 00-0779		Brass Compression Fittings <small>(22 11 16 00-0368)</small>		
22 11 16 00-0780		Brass Compression Unions <small>(22 11 16 00-0779)</small>		
	EA	1/4" Brass Compression Union.....	25.12	15.90



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0782	EA		3/8" Brass Compression Union.....	25.47	15.90
22 11 16 00-0783	EA		1/2" Brass Compression Union.....	26.54	15.90
22 11 16 00-0784	EA		5/8" Brass Compression Union.....	27.05	15.90
22 11 16 00-0785	EA		3/4" Brass Compression Union.....	33.64	15.90
22 11 16 00-0786	EA		3/8" x 1/4" Brass Compression Union.....	25.71	15.90
22 11 16 00-0787	EA		1/2" x 3/8" Brass Compression Union.....	26.62	15.90
22 11 16 00-0788	EA		5/8" x 3/8" Brass Compression Union.....	27.26	15.90
22 11 16 00-0789	EA		5/8" x 1/2" Brass Compression Union.....	28.27	15.90
22 11 16 00-0790			Brass Compression Union Elbows (22 11 16 00-0779)		
22 11 16 00-0791	EA		1/4" Brass Compression Union Elbow.....	26.54	15.90
22 11 16 00-0792	EA		3/8" Brass Compression Union Elbow.....	27.12	15.90
22 11 16 00-0793	EA		1/2" Brass Compression Union Elbow.....	28.38	15.90
22 11 16 00-0794	EA		5/8" Brass Compression Union Elbow.....	30.35	15.90
22 11 16 00-0795	EA		3/4" Brass Compression Union Elbow.....	38.02	15.90
22 11 16 00-0796	EA		3/8" x 1/4" Brass Compression Union Elbow.....	27.12	15.90
22 11 16 00-0797	EA		1/2" x 3/8" Brass Compression Union Elbow.....	28.38	15.90
22 11 16 00-0798	EA		5/8" x 3/8" Brass Compression Union Elbow.....	28.73	15.90
22 11 16 00-0799	EA		5/8" x 1/2" Brass Compression Union Elbow.....	34.50	15.90
22 11 16 00-0800			Brass Compression Union Tees (22 11 16 00-0779)		
22 11 16 00-0801	EA		1/4" Brass Compression Union Tee.....	26.98	15.90
22 11 16 00-0802	EA		3/8" Brass Compression Union Tee.....	28.17	15.90
22 11 16 00-0803	EA		1/2" Brass Compression Union Tee.....	29.44	15.90
22 11 16 00-0804	EA		5/8" Brass Compression Union Tee.....	33.45	15.90
22 11 16 00-0805	EA		3/4" Brass Compression Union Tee.....	47.30	15.90
22 11 16 00-0806	EA		3/8" x 3/8" x 1/4" Brass Compression Union Tee.....	29.01	15.90
22 11 16 00-0807	EA		1/2" x 1/2" x 3/8" Brass Compression Union Tee.....	35.52	15.90
22 11 16 00-0808	EA		5/8" x 5/8" x 3/8" Brass Compression Union Tee.....	34.89	15.90
22 11 16 00-0809	EA		5/8" x 5/8" x 1/2" Brass Compression Union Tee.....	35.63	15.90
22 11 16 00-0810			Brass Compression Male Connectors (22 11 16 00-0779)		
22 11 16 00-0811	EA		1/4" Brass Compression Male Connector.....	24.87	15.90
22 11 16 00-0812	EA		3/8" Brass Compression Male Connector.....	25.33	15.90
22 11 16 00-0813	EA		1/2" Brass Compression Male Connector.....	26.13	15.90
22 11 16 00-0814	EA		5/8" Brass Compression Male Connector.....	27.33	15.90
22 11 16 00-0815	EA		3/4" Brass Compression Male Connector.....	30.68	15.74
22 11 16 00-0816			Brass Compression Female Connectors (22 11 16 00-0779)		
22 11 16 00-0817	EA		1/4" Brass Compression Female Connector.....	25.37	15.90
22 11 16 00-0818	EA		3/8" Brass Compression Female Connector.....	25.97	15.90
22 11 16 00-0819	EA		1/2" Brass Compression Female Connector.....	26.99	15.90
22 11 16 00-0820	EA		5/8" Brass Compression Female Connector.....	27.65	15.90
22 11 16 00-0821	EA		3/4" Brass Compression Female Connector.....	37.47	15.60
22 11 16 00-0822			Dielectric Fittings (22 11 16 00-0368)		
22 11 16 00-0823			Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0824	EA		1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	60.28	35.32
22 11 16 00-0825	EA		3/4" Copper x Female Iron Pipe Thread Dielectric Union.....	67.63	40.32
22 11 16 00-0826	EA		1" Copper x Female Iron Pipe Thread Dielectric Union.....	79.09	44.31
22 11 16 00-0827	EA		1-1/4" Copper x Female Iron Pipe Thread Dielectric Union.....	93.97	48.77
22 11 16 00-0828	EA		1-1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	111.79	54.19
22 11 16 00-0829	EA		2" Copper x Female Iron Pipe Thread Dielectric Union.....	140.54	65.03
22 11 16 00-0830			Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0831	EA		1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	64.89	35.32
22 11 16 00-0832	EA		3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	75.22	40.32
22 11 16 00-0833	EA		1" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	89.10	44.31
22 11 16 00-0834	EA		1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	107.25	48.77
22 11 16 00-0835	EA		1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	128.22	54.19
22 11 16 00-0836	EA		2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	159.81	65.03
22 11 16 00-0837			Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0838	EA		1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	61.97	35.32
22 11 16 00-0839	EA		3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	70.40	40.32
22 11 16 00-0840	EA		1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	79.82	44.31
22 11 16 00-0841	EA		1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	91.40	48.77
22 11 16 00-0842	EA		1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	109.25	54.19
22 11 16 00-0843	EA		2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	138.50	65.03
22 11 16 00-0844			Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0845	EA		2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....	345.52	167.19
	22 11 16 00-0846	EA		3" Copper x Female Iron Pipe Thread Dielectric Flange.....	433.03	210.54
	22 11 16 00-0847	EA		4" Copper x Female Iron Pipe Thread Dielectric Flange.....	606.55	286.55
22 11 16 00-0848				Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges ⁽²²⁾		
				<small>11 16 00-0822</small>		
	22 11 16 00-0849	EA		2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	347.41	167.19
	22 11 16 00-0850	EA		3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	448.14	210.54
	22 11 16 00-0851	EA		4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	780.91	286.55
22 11 16 00-0852				Brass Push-Fit Fittings ^(22 11 16)		
	22 11 16 00-0853	EA		1/4" x 1/4" Brass Push-Fit Coupling..... Note: (Sharkbite)	29.94	14.72
	22 11 16 00-0854	EA		3/8" x 3/8" Brass Push-Fit Coupling..... Note: (Sharkbite)	36.47	15.70
	22 11 16 00-0855	EA		1/2" x 1/2" Brass Push-Fit Coupling..... Note: (Sharkbite)	38.17	17.66
	22 11 16 00-0856	EA		5/8" x 5/8" Brass Push-Fit Coupling..... Note: (Sharkbite)	43.53	18.84
	22 11 16 00-0857	EA		3/4" x 3/4" Brass Push-Fit Coupling..... Note: (Sharkbite)	44.62	20.12
	22 11 16 00-0858	EA		1" x 1" Brass Push-Fit Coupling..... Note: (Sharkbite)	61.58	24.03
	22 11 16 00-0859	EA		1/2" x 3/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	37.31	16.67
	22 11 16 00-0860	EA		3/4" x 5/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	42.92	18.25
	22 11 16 00-0861	EA		1" x 3/4" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	62.57	22.08
	22 11 16 00-0862	EA		1/4" x 1/4" Brass Push-Fit Elbow..... Note: (Sharkbite)	31.07	14.72
	22 11 16 00-0863	EA		3/8" x 3/8" Brass Push-Fit Elbow..... Note: (Sharkbite)	41.31	15.70
	22 11 16 00-0864	EA		1/2" x 1/2" Brass Push-Fit Elbow..... Note: (Sharkbite)	38.79	17.66
	22 11 16 00-0865	EA		5/8" x 5/8" Brass Push-Fit Elbow..... Note: (Sharkbite)	46.34	18.84
	22 11 16 00-0866	EA		3/4" x 3/4" Brass Push-Fit Elbow..... Note: (Sharkbite)	43.81	20.12
	22 11 16 00-0867	EA		1" x 1" Brass Push-Fit Elbow..... Note: (Sharkbite)	62.20	24.03
	22 11 16 00-0868	EA		1/2" x 3/8" Brass Push-Fit Reducing Elbow..... Note: (Sharkbite)	36.79	16.67
	22 11 16 00-0869	EA		3/4" x 1/2" Brass Push-Fit Reducing Elbow..... Note: (Sharkbite)	40.91	18.25
	22 11 16 00-0870	EA		1" x 3/4" Brass Push-Fit Reducing Elbow..... Note: (Sharkbite)	76.42	22.08
	22 11 16 00-0871	EA		1/4" x 1/4" x 1/4" Brass Push-Fit Tee..... Note: (Sharkbite)	47.06	22.08
	22 11 16 00-0872	EA		3/8" x 3/8" x 3/8" Brass Push-Fit Tee..... Note: (Sharkbite)	58.43	23.55
	22 11 16 00-0873	EA		1/2" x 1/2" x 1/2" Brass Push-Fit Tee..... Note: (Sharkbite)	54.82	26.49
	22 11 16 00-0874	EA		5/8" x 5/8" x 5/8" Brass Push-Fit Tee..... Note: (Sharkbite)	68.32	28.25
	22 11 16 00-0875	EA		3/4" x 3/4" x 3/4" Brass Push-Fit Tee..... Note: (Sharkbite)	63.75	30.17
	22 11 16 00-0876	EA		1" x 1" x 1" Brass Push-Fit Tee..... Note: (Sharkbite)	85.77	36.05
	22 11 16 00-0877	EA		1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	60.26	25.01
	22 11 16 00-0878	EA		1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	60.70	25.51
	22 11 16 00-0879	EA		3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	61.50	28.95
	22 11 16 00-0880	EA		1" x 1" x 3/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	82.97	34.09
	22 11 16 00-0881	EA		1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	35.28	16.19
	22 11 16 00-0882	EA		3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	35.04	16.67
	22 11 16 00-0883	EA		1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	34.94	17.66
	22 11 16 00-0884	EA		3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	39.99	20.12
	22 11 16 00-0885	EA		1" x 1" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	55.07	24.03
	22 11 16 00-0886	EA		1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	31.39	16.19
	22 11 16 00-0887	EA		3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	35.04	16.67

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0888	EA		1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	35.03	17.66
22 11 16 00-0889	EA		3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	39.64	20.12
22 11 16 00-0890	EA		5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	42.44	19.46
22 11 16 00-0891	EA		1" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	50.58	22.08
22 11 16 00-0892	EA		1" x 1" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	55.79	24.03
22 11 16 00-0893	EA		1/2" Brass Push-Fit Ball Valve Note: (Sharkbite)	48.38	17.66
22 11 16 00-0894	EA		3/4" Brass Push-Fit Ball Valve Note: (Sharkbite)	56.42	20.12
22 11 16 00-0895	EA		1" Brass Push-Fit Ball Valve Note: (Sharkbite)	73.86	24.03
22 11 16 00-0896	EA		1/2" Brass Push-Fit Check Valve Note: (Sharkbite)	51.50	17.66
22 11 16 00-0897	EA		3/4" Brass Push-Fit Check Valve Note: (Sharkbite)	61.69	20.12
22 11 16 00-0898	EA		1" Brass Push-Fit Check Valve Note: (Sharkbite)	101.27	24.03
22 11 16 00-0899			Copper Pipe Assemblies ^(22 11 16) Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0900	LF		1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.85 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.56 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.72 <i>For For Brazed Fittings, Add</i> 0.92 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.57 <i>For Work In Restricted Working Space, Add</i> 6.91	28.34	4.12
22 11 16 00-0901	LF		3/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.28 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.89 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.27 <i>For For Brazed Fittings, Add</i> 1.04 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.96 <i>For Work In Restricted Working Space, Add</i> 7.83	33.16	5.30
22 11 16 00-0902	LF		1" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.76 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.24 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.58 <i>For For Brazed Fittings, Add</i> 1.09 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.21 <i>For Work In Restricted Working Space, Add</i> 8.20	36.91	6.32
22 11 16 00-0903	LF		1-1/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 3.45 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.73 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.92 <i>For For Brazed Fittings, Add</i> 1.14 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.50 <i>For Work In Restricted Working Space, Add</i> 8.52 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.33	41.68	7.36
22 11 16 00-0904	LF		1-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 4.08 <i>For Type M Tubing Instead Of Type L, Deduct</i> -3.19 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 5.37 <i>For For Brazed Fittings, Add</i> 1.21 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.85 <i>For Work In Restricted Working Space, Add</i> 9.09 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.65	46.76	8.39
22 11 16 00-0905	LF		2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 5.72 <i>For Type M Tubing Instead Of Type L, Deduct</i> -4.37 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 6.47 <i>For For Brazed Fittings, Add</i> 1.39 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -4.73 <i>For Work In Restricted Working Space, Add</i> 10.46 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -2.48	59.66	10.45



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0906 LF 2-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	74.01 7.88 -5.89 7.44 1.50 -5.57 11.22 -3.66	12.60
22 11 16 00-0907 LF 3" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	90.44 10.33 -7.61 8.57 1.62 -6.55 12.15 -5.00	14.63
22 11 16 00-0908 LF 4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	142.43 17.80 -12.90 12.36 2.09 -9.74 15.71 -9.01	19.37
22 11 16 00-0909 LF 5" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	254.38 35.33 -25.15 19.44 2.69 -16.08 20.16 -18.72	24.12
22 11 16 00-0910 LF 6" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	332.87 46.58 -33.12 25.18 3.41 -20.91 25.61 -24.75	29.13
22 11 16 00-0911 LF 8" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	721.75 111.62 -78.12 46.69 4.24 -41.39 31.82 -61.57	34.82
22 11 16 00-0912 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
22 11 16 00-0913 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0912)		
22 11 16 00-0914 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0913)		
22 11 16 00-0915 LF 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	10.18 1.62	2.17
22 11 16 00-0916 LF 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	12.21 1.71	2.27
22 11 16 00-0917 LF 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	15.69 1.64	2.45
22 11 16 00-0918 LF 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	19.90 2.01	2.67
22 11 16 00-0919 LF 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	23.40 2.22	2.96
22 11 16 00-0920 LF 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	30.42 2.48	3.31
22 11 16 00-0921 LF 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	43.30 2.82	3.75
22 11 16 00-0922 LF 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	56.39 3.33	4.45

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0923	LF		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	80.08 4.10	5.46
22 11 16 00-0924	LF		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	145.86 5.21	6.94
22 11 16 00-0925	LF		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	212.29 6.83	9.10
22 11 16 00-0926 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows <small>(22 11 16 00-0913)</small>					
22 11 16 00-0927	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	33.19 7.72	10.30
22 11 16 00-0928	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	44.11 9.76	13.00
22 11 16 00-0929	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	59.09 12.23	16.25
22 11 16 00-0930	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	86.22 15.28	20.33
22 11 16 00-0931	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	96.19 16.91	22.49
22 11 16 00-0932	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	116.55 18.86	22.49
22 11 16 00-0933	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	211.39 21.46	28.58
22 11 16 00-0934	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	236.51 25.37	33.88
22 11 16 00-0935	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	357.49 31.22	41.60
22 11 16 00-0936	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	449.91 39.67	52.84
22 11 16 00-0937	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	950.90 52.03	69.37
22 11 16 00-0938 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows <small>(22 11 16 00-0913)</small>					
22 11 16 00-0939	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	36.91 7.72	10.30
22 11 16 00-0940	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	48.56 9.76	13.00
22 11 16 00-0941	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	66.34 12.23	16.25
22 11 16 00-0942	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	95.74 15.28	20.33
22 11 16 00-0943	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	107.78 16.91	22.49
22 11 16 00-0944	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	120.48 18.86	25.21
22 11 16 00-0945	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	213.88 21.46	28.58
22 11 16 00-0946	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	236.20 25.37	33.88
22 11 16 00-0947	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	312.08 31.22	41.60
22 11 16 00-0948	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	535.04 39.67	52.84
22 11 16 00-0949	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,011.21 52.03	69.37
22 11 16 00-0950 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees <small>(22 11 16 00-0913)</small>					
22 11 16 00-0951	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	52.17 11.58	15.45
22 11 16 00-0952	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	70.40 14.63	19.51
22 11 16 00-0953	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	87.83 18.37	24.52
22 11 16 00-0954	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	132.47 22.92	30.62
22 11 16 00-0955	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	148.79 25.37	33.88
22 11 16 00-0956	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	190.12 28.29	37.67
22 11 16 00-0957	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	264.73 32.19	42.95
22 11 16 00-0958	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	298.10 38.05	50.67
22 11 16 00-0959	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	358.41 46.82	62.46
22 11 16 00-0960	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	593.71 59.51	79.40
22 11 16 00-0961	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	1,392.01 78.04	104.05



Plumbing	22	22
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0962 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses <small>(22 11 16 00-0913)</small>		
22 11 16 00-0963 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	63.16 15.45	20.60
22 11 16 00-0964 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	83.66 19.51	26.01
22 11 16 00-0965 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	104.47 24.47	32.65
22 11 16 00-0966 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	150.18 30.57	40.78
22 11 16 00-0967 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	168.07 33.82	45.12
22 11 16 00-0968 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	208.27 37.72	50.27
22 11 16 00-0969 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	278.65 42.92	57.18
22 11 16 00-0970 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	316.60 50.72	67.61
22 11 16 00-0971 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	382.38 62.43	83.19
22 11 16 00-0972 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	605.00 79.34	105.82
22 11 16 00-0973 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	1,321.75 104.06	138.74
22 11 16 00-0974 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts <small>(22 11 16 00-0913)</small>		
22 11 16 00-0975 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	28.30 7.16	9.48
22 11 16 00-0976 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	40.80 9.63	12.87
22 11 16 00-0977 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	81.72 12.60	16.80
22 11 16 00-0978 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	93.34 13.94	18.56
22 11 16 00-0979 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	113.44 15.57	20.73
22 11 16 00-0980 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	120.62 17.72	23.58
22 11 16 00-0981 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	148.59 20.93	27.91
22 11 16 00-0982 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	212.20 25.77	34.28
22 11 16 00-0983 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	378.13 32.72	43.63
22 11 16 00-0984 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	952.61 42.92	57.18
22 11 16 00-0985 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts <small>(22 11 16 00-0913)</small>		
22 11 16 00-0986 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	46.11 5.08	6.78
22 11 16 00-0987 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	55.30 7.16	9.48
22 11 16 00-0988 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	65.83 9.63	12.87
22 11 16 00-0989 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	79.55 12.60	16.80
22 11 16 00-0990 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	96.54 13.94	18.56
22 11 16 00-0991 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	129.38 15.57	20.73
22 11 16 00-0992 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	224.69 17.72	23.58
22 11 16 00-0993 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	502.37 20.93	27.91
22 11 16 00-0994 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	767.69 25.77	34.28
22 11 16 00-0995 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <small>(22 11 16 00-0913)</small>		
22 11 16 00-0996 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	28.11 5.08	6.78
22 11 16 00-0997 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	38.95 7.16	9.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0998 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	57.56	12.87
<i>For Work In Restricted Working Space, Add</i>	9.63	
22 11 16 00-0999 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	79.55	16.80
<i>For Work In Restricted Working Space, Add</i>	12.60	
22 11 16 00-1000 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	97.27	18.56
<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-1001 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	120.58	20.73
<i>For Work In Restricted Working Space, Add</i>	15.57	
22 11 16 00-1002 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	189.10	23.58
<i>For Work In Restricted Working Space, Add</i>	17.72	
22 11 16 00-1003 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	227.00	27.91
<i>For Work In Restricted Working Space, Add</i>	20.93	
22 11 16 00-1004 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	351.74	34.28
<i>For Work In Restricted Working Space, Add</i>	25.77	
22 11 16 00-1005 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters (22 11 16 00-0913)		
22 11 16 00-1006 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	32.36	6.78
<i>For Work In Restricted Working Space, Add</i>	5.08	
22 11 16 00-1007 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	40.30	9.48
<i>For Work In Restricted Working Space, Add</i>	7.16	
22 11 16 00-1008 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	57.91	12.87
<i>For Work In Restricted Working Space, Add</i>	9.63	
22 11 16 00-1009 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	80.80	16.80
<i>For Work In Restricted Working Space, Add</i>	12.60	
22 11 16 00-1010 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	91.57	18.56
<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-1011 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	115.93	20.73
<i>For Work In Restricted Working Space, Add</i>	15.57	
22 11 16 00-1012 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	191.79	23.58
<i>For Work In Restricted Working Space, Add</i>	17.72	
22 11 16 00-1013 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	273.97	27.91
<i>For Work In Restricted Working Space, Add</i>	20.93	
22 11 16 00-1014 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	431.59	34.28
<i>For Work In Restricted Working Space, Add</i>	25.77	
22 11 16 00-1015 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0913)		
22 11 16 00-1016 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	24.97	6.24
<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-1017 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	35.12	8.67
<i>For Work In Restricted Working Space, Add</i>	6.50	
22 11 16 00-1018 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	47.24	11.65
<i>For Work In Restricted Working Space, Add</i>	8.74	
22 11 16 00-1019 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	65.21	15.31
<i>For Work In Restricted Working Space, Add</i>	11.46	
22 11 16 00-1020 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	76.31	16.94
<i>For Work In Restricted Working Space, Add</i>	12.68	
22 11 16 00-1021 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	86.67	18.83
<i>For Work In Restricted Working Space, Add</i>	14.15	
22 11 16 00-1022 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	148.40	21.40
<i>For Work In Restricted Working Space, Add</i>	16.10	
22 11 16 00-1023 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	159.10	25.34
<i>For Work In Restricted Working Space, Add</i>	19.02	
22 11 16 00-1024 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	203.41	31.16
<i>For Work In Restricted Working Space, Add</i>	23.47	
22 11 16 00-1025 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	346.52	39.70
<i>For Work In Restricted Working Space, Add</i>	29.75	
22 11 16 00-1026 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	631.26	52.03
<i>For Work In Restricted Working Space, Add</i>	39.02	
22 11 16 00-1027 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0913)		
22 11 16 00-1028 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	59.11	7.45
<i>For Work In Restricted Working Space, Add</i>	5.57	
22 11 16 00-1029 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	68.53	10.43
<i>For Work In Restricted Working Space, Add</i>	7.80	
22 11 16 00-1030 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	78.81	13.95
<i>For Work In Restricted Working Space, Add</i>	10.49	
22 11 16 00-1031 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	148.93	18.30
<i>For Work In Restricted Working Space, Add</i>	13.74	
22 11 16 00-1032 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	155.67	20.33
<i>For Work In Restricted Working Space, Add</i>	15.20	
22 11 16 00-1033 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	230.84	22.63
<i>For Work In Restricted Working Space, Add</i>	16.99	
22 11 16 00-1034 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	425.58	25.74
<i>For Work In Restricted Working Space, Add</i>	19.31	
22 11 16 00-1035 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	622.02	30.49
<i>For Work In Restricted Working Space, Add</i>	22.85	
22 11 16 00-1036 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	1,021.61	37.40
<i>For Work In Restricted Working Space, Add</i>	28.09	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1037	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	1,372.27 35.69	47.55
22 11 16 00-1038	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	1,687.03 46.82	62.46
22 11 16 00-1039			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0913)		
22 11 16 00-1040	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	24.66 2.90	6.37
22 11 16 00-1041	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	33.50 3.66	8.00
22 11 16 00-1042	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	52.95 4.59	10.03
22 11 16 00-1043	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	60.38 5.73	7.58
22 11 16 00-1044	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	63.24 6.34	8.40
22 11 16 00-1045	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	91.36 7.07	9.48
22 11 16 00-1046	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	148.88 8.05	10.70
22 11 16 00-1047	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	156.56 9.51	12.73
22 11 16 00-1048	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	249.63 11.71	15.58
22 11 16 00-1049	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	573.63 14.88	19.78
22 11 16 00-1050	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	737.93 19.51	26.01
22 11 16 00-1051			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges (22 11 16 00-0913)		
22 11 16 00-1052	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	48.54 3.70	4.88
22 11 16 00-1053	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	56.14 5.20	6.91
22 11 16 00-1054	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	66.54 6.99	9.34
22 11 16 00-1055	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	75.10 9.19	12.19
22 11 16 00-1056	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	79.39 10.16	13.55
22 11 16 00-1057	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	98.19 11.30	15.04
22 11 16 00-1058	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	137.41 12.89	17.21
22 11 16 00-1059	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	153.70 15.20	20.33
22 11 16 00-1060	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	193.01 18.74	24.93
22 11 16 00-1061	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	284.63 23.82	31.70
22 11 16 00-1062	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	567.06 31.22	41.60
22 11 16 00-1063			Cross-Linked Polyethylene Tubing, ASTM F877 (22 11 16) Note: Aboveground, domestic water usage.		
22 11 16 00-1064			Cross-Linked Polyethylene Tubing (22 11 16 00-1063)		
22 11 16 00-1065	LF		3/8" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing <i>For Work In Restricted Working Space, Add</i>	5.79 1.28	
22 11 16 00-1066	LF		1/2" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing <i>For Work In Restricted Working Space, Add</i>	6.31 1.38	
22 11 16 00-1067	LF		3/4" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing <i>For Work In Restricted Working Space, Add</i>	8.09 1.49	
22 11 16 00-1068	LF		1" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing <i>For Work In Restricted Working Space, Add</i>	10.62 1.58	
22 11 16 00-1069			Cross-Linked Polyethylene Forged Brass PEX Fittings (22 11 16 00-1063) Note: Aboveground, domestic water usage.		
22 11 16 00-1070			Male Adapters (22 11 16 00-1069)		
22 11 16 00-1071	EA		3/8" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	27.47 6.62	
22 11 16 00-1072	EA		1/2" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	29.57 7.07	
22 11 16 00-1073	EA		1/2" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.29 7.50	
22 11 16 00-1074	EA		3/4" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	33.77 7.95	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1075 EA 3/4" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.29 7.50	
22 11 16 00-1076 EA 1" x 1", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	42.25 8.83	
22 11 16 00-1077 Female Adapters (22 11 16 00-1069)		
22 11 16 00-1078 EA 1/2" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	30.20 7.07	
22 11 16 00-1079 EA 1/2" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	34.02 7.50	
22 11 16 00-1080 EA 3/4" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	35.50 7.95	
22 11 16 00-1081 EA 3/4" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	34.02 7.50	
22 11 16 00-1082 EA 1" x 1", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	43.04 8.83	
22 11 16 00-1083 Tube Adapters (22 11 16 00-1069)		
22 11 16 00-1084 EA 3/8" x 1/2" Forged Brass Tube Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	24.91 6.62	
22 11 16 00-1085 EA 1/2" Forged Brass Tube Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	26.38 7.07	
22 11 16 00-1086 EA 3/4" Forged Brass Tube Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	31.72 7.95	
22 11 16 00-1087 EA 1" Forged Brass Tube Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	40.64 8.83	
22 11 16 00-1088 Plugs (22 11 16 00-1069)		
22 11 16 00-1089 EA 3/8" Forged Brass Plug For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	12.51 3.09	
22 11 16 00-1090 EA 1/2" Forged Brass Plug For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	13.97 3.53	
22 11 16 00-1091 EA 3/4" Forged Brass Plug For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	16.07 3.97	
22 11 16 00-1092 EA 1" Forged Brass Plug For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	19.95 4.42	
22 11 16 00-1093 Tees (22 11 16 00-1069)		
22 11 16 00-1094 EA 3/8" Forged Brass Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	35.51 9.27	
22 11 16 00-1095 EA 1/2" Forged Brass Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	39.92 10.60	
22 11 16 00-1096 EA 3/4" Forged Brass Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	47.48 11.92	
22 11 16 00-1097 EA 1" Forged Brass Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	60.75 13.25	
22 11 16 00-1098 EA 1/2" Forged Brass Reducing Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	38.44 10.15	
22 11 16 00-1099 EA 3/4" Forged Brass Reducing Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	44.54 11.04	
22 11 16 00-1100 EA 1" Forged Brass Reducing Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	55.07 11.92	
22 11 16 00-1101 Couplings (22 11 16 00-1069)		
22 11 16 00-1102 EA 3/8" Forged Brass Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	22.96 6.18	
22 11 16 00-1103 EA 1/2" Forged Brass Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	26.07 7.07	
22 11 16 00-1104 EA 3/4" Forged Brass Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	29.79 7.95	
22 11 16 00-1105 EA 1" Forged Brass Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	36.39 8.83	
22 11 16 00-1106 EA 3/4" x 1/2" Forged Brass Reducing Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	28.31 7.50	
22 11 16 00-1107 EA 1" x 3/4" Forged Brass Reducing Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	34.92 8.39	
22 11 16 00-1108 Fitting Reducers (22 11 16 00-1069)		
22 11 16 00-1109 EA 3/8" x 1/2" Forged Brass Fitting Reducer For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	25.38 6.62	
22 11 16 00-1110 EA 1/2" Forged Brass Fitting Reducer For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	26.85 7.07	
22 11 16 00-1111 EA 3/4" Forged Brass Fitting Reducer For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.67 7.95	
22 11 16 00-1112 EA 1" Forged Brass Fitting Reducer For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	46.03 8.83	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1113				90 Degree Elbows <small>(22 11 16 00-1069)</small>		
	EA			3/8" Forged Brass 90 Degree Elbow For PEX Tubing	24.38	
				<i>For Work In Restricted Working Space, Add</i>	6.18	
	EA			1/2" Forged Brass 90 Degree Elbow For PEX Tubing	27.33	
				<i>For Work In Restricted Working Space, Add</i>	7.07	
	EA			3/4" Forged Brass 90 Degree Elbow For PEX Tubing	32.67	
				<i>For Work In Restricted Working Space, Add</i>	7.95	
	EA			3/4" x 1/2" Forged Brass 90 Degree Elbow For PEX Tubing	31.19	
				<i>For Work In Restricted Working Space, Add</i>	7.50	
	EA			1/2" Drop 90 Degree Elbow For PEX Tubing	37.16	
				<i>For Work In Restricted Working Space, Add</i>	7.07	
	EA			3/4" Forged Brass Drop 90 Degree Elbow For PEX Tubing	41.52	
				<i>For Work In Restricted Working Space, Add</i>	7.95	
	EA			3/4" x 1/2" Forged Brass Drop 90 Degree Elbow For PEX Tubing	40.04	
				<i>For Work In Restricted Working Space, Add</i>	7.50	
22 11 19				Domestic Water Piping Specialties <small>(22 11)</small>		
22 11 19 00-0001				Rubber Hose And Clamps <small>(22 11 19)</small>		
22 11 19 00-0002				General Purpose Hose <small>(22 11 19 00-0001)</small>		
				Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.		
	LF			3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	8.57	2.93
	LF			1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	9.92	2.93
	LF			5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	11.88	2.93
	LF			3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	11.97	2.93
	LF			1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	15.89	4.40
	LF			1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	25.34	4.40
	LF			1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	27.61	5.86
	LF			2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	51.26	5.86
22 11 19 00-0011				Reinforced EPDM Water Hose Assembly <small>(22 11 19 00-0001)</small>		
				Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.		
	LF			1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	67.14	5.86
	LF			2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	79.04	5.86
	LF			3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	111.04	7.21
	LF			4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	155.45	9.74
22 11 19 00-0016				Chemical Resistant Rubber Hoses <small>(22 11 19 00-0001)</small>		
	EA			50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose	1,394.26	329.74
	EA			50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose	1,875.67	329.74
22 11 19 00-0019				Water Pump Hose <small>(22 11 19 00-0001)</small>		
	EA			2" Inside Diameter, 20' Rubber Discharge Hose	600.14	89.54
	EA			2" Inside Diameter, 20' Rubber Intake Hose	632.71	89.54
22 11 19 00-0022				Barbed Hose x Threaded Male Pipe, Steel Coupling <small>(22 11 19 00-0001)</small>		
	EA			3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	34.92	12.31
	EA			1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	37.14	13.19
	EA			5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	39.73	14.07
	EA			3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	45.59	15.82
	EA			1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling	54.19	19.35
	EA			1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling	64.41	23.15
	EA			1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling	83.41	30.48
	EA			2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling	104.82	38.10
22 11 19 00-0031				Worm-Drive Hose Clamp <small>(22 11 19 00-0001)</small>		
	EA			3/8" To 1" Diameter Worm Drive Hose Clamp	15.15	4.40
	EA			1/2" To 1-1/8" Diameter Worm Drive Hose Clamp	16.02	4.40
	EA			5/8" To 1-1/2" Diameter Worm Drive Hose Clamp	16.97	4.40
	EA			3/4" To 2" Diameter Worm Drive Hose Clamp	18.08	4.40
	EA			1" To 2-1/2" Diameter Worm Drive Hose Clamp	19.33	4.40
	EA			1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp	20.90	5.86
	EA			1-1/2" To 3" Diameter Worm Drive Hose Clamp	22.58	5.86
22 11 19 00-0039				Trap Primer And Accessories <small>(22 11 19)</small>		
22 11 19 00-0040				Trap Primer <small>(22 11 19 00-0039)</small>		
	EA			1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699)	304.44	22.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0042 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500).....	187.60	14.72
22 11 19 00-0043 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....	182.03	14.72
22 11 19 00-0044 Trap Primer Distribution Unit (22 11 19 00-0039)		
22 11 19 00-0045 EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U)..... Note: Can be used for two, three or four drains.	170.13	29.43
22 11 19 00-0046 EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4)..... Note: Can be used for two, three or four drains.	185.13	29.43
22 11 19 00-0047 Trap Primer Manifold (22 11 19 00-0039)		
22 11 19 00-0048 EA Two Outlet Trap Primer Manifold.....	246.15	39.58
22 11 19 00-0049 EA Four Outlet Trap Primer Manifold.....	366.91	45.03
22 11 19 00-0050 EA Six Outlet Trap Primer Manifold.....	483.90	47.68
22 11 19 00-0051 EA Eight Outlet Trap Primer Manifold.....	607.19	55.92
22 11 19 00-0052 Sewage Air Release Valves (22 11 19)		
22 11 19 00-0053 Cast Iron, Sewage Air Release Valves (22 11 19 00-0052) Note: Stainless steel float.		
22 11 19 00-0054 EA 2" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400)..... <i>For Back Flush Attachment, Add</i>	976.79 650.00	53.73
22 11 19 00-0055 EA 3" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400)..... <i>For Back Flush Attachment, Add</i>	1,209.34 650.00	89.79
22 11 19 00-0056 EA 4" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400)..... <i>For Back Flush Attachment, Add</i>	1,533.29 650.00	113.35
22 11 19 00-0057 Cast Iron, Sewage Air Vacuum Valves (22 11 19 00-0052) Note: Stainless steel float.		
22 11 19 00-0058 EA 2" x 1" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 401)..... <i>For Back Flush Attachment, Add</i>	997.49 650.00	53.73
22 11 19 00-0059 EA 2" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 402)..... <i>For Back Flush Attachment, Add</i>	1,934.09 650.00	53.73
22 11 19 00-0060 EA 3" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 403)..... <i>For Back Flush Attachment, Add</i>	2,332.22 650.00	89.79
22 11 19 00-0061 EA 4" NPT x 4" With Hood, Cast Iron, Sewage Air Vacuum Valve (Apco 404).....	3,445.30	113.35
22 11 19 00-0062 Cast Iron, Sewage Combination Air Valves (22 11 19 00-0052) Note: Stainless steel float.		
22 11 19 00-0063 EA 2" x 1" NPT, Sewage Combination Air Valve (Apco 443).....	2,104.86	53.73
22 11 19 00-0064 EA 2" x 2" NPT, Sewage Combination Air Valve (Apco 445).....	2,893.98	53.73
22 11 19 00-0065 EA 3" x 3" NPT, Sewage Combination Air Valve (Apco 447).....	3,398.19	89.79
22 11 19 00-0066 EA 4" x 4" NPT, Sewage Combination Air Valve (Apco 449).....	4,156.81	113.35
22 11 19 00-0067 Brass, Anti Siphon Vacuum Breakers (22 11 19) Note: Watts 288A		
22 11 19 00-0068 EA 1/2" Brass, Anti Siphon Vacuum Breaker.....	121.04	36.79
22 11 19 00-0069 EA 3/4" Brass, Anti Siphon Vacuum Breaker.....	138.42	41.20
22 11 19 00-0070 EA 1" Brass, Anti Siphon Vacuum Breaker.....	265.89	47.09
22 11 19 00-0071 EA 1-1/4" Brass, Anti Siphon Vacuum Breaker.....	413.29	54.45
22 11 19 00-0072 EA 1-1/2" Brass, Anti Siphon Vacuum Breaker.....	492.95	60.33
22 11 19 00-0073 EA 2" Brass, Anti Siphon Vacuum Breaker.....	713.90	73.58
22 11 19 00-0074 EA 2-1/2" Brass, Anti Siphon Vacuum Breaker.....	1,824.74	91.98
22 11 19 00-0075 Anti Siphon Pressure Vacuum Breakers (22 11 19) Note: Watts 800M4QT		
22 11 19 00-0076 EA 1/2" Anti Siphon Pressure Type Vacuum Breaker.....	322.08	36.79
22 11 19 00-0077 EA 3/4" Anti Siphon Pressure Type Vacuum Breaker.....	285.66	41.20
22 11 19 00-0078 EA 1" Anti Siphon Pressure Type Vacuum Breaker.....	402.63	47.09
22 11 19 00-0079 EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....	714.12	54.45
22 11 19 00-0080 EA 1-1/2" Anti Siphon Pressure Type Vacuum Breaker.....	868.37	60.33
22 11 19 00-0081 EA 2" Anti Siphon Pressure Type Vacuum Breaker.....	882.06	73.58
22 11 19 00-0082 Bellows Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0083 EA Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005).....	287.65	17.60
22 11 19 00-0084 EA >11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010).....	556.33	21.29
22 11 19 00-0085 EA >32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020).....	811.00	21.29
22 11 19 00-0086 EA >60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030).....	1,969.10	21.29
22 11 19 00-0087 EA >113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040).....	2,217.16	21.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0088 EA >154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050).....	2,714.75	21.29
22 11 19 00-0089 Piston Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0090 Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0089)		
22 11 19 00-0091 EA Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....	173.32	9.81
22 11 19 00-0092 EA >11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	330.04	11.32
22 11 19 00-0093 EA >32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C).....	488.76	12.27
22 11 19 00-0094 EA >60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....	1,196.89	15.82
22 11 19 00-0095 EA >113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	1,457.89	19.63
22 11 19 00-0096 EA >154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	1,658.57	21.29
22 11 19 00-0097 Wall Hydrants (22 11 19) Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0098 Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0097) Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0099 EA 6" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant..... For Cast Bronze Box, Add For 1" NPT Outlet, Add	985.17 49.99 117.83	36.79
22 11 19 00-0100 EA 12" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant..... For Cast Bronze Box, Add For 1" NPT Outlet, Add	1,039.17 49.99 117.83	44.15
22 11 19 00-0101 EA 18" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant..... For Cast Bronze Box, Add For 1" NPT Outlet, Add	1,069.31 49.99 117.83	53.13
22 11 19 00-0102 Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0097) Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0103 EA Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant..... For Cast Bronze Box, Add For 1" NPT Outlet, Add	997.06 49.99 117.83	61.80
22 11 19 00-0104 Cast Bronze Non-Freezing Wall Hydrant (22 11 19 00-0097) Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0105 EA 3" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant..... For 1" NPT Outlet, Add	540.49 117.83	45.62
22 11 19 00-0106 EA 4" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant..... For 1" NPT Outlet, Add	667.07 117.83	45.62
22 11 19 00-0107 EA 6" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant..... For 1" NPT Outlet, Add	667.07 117.83	45.62
22 11 19 00-0108 EA 8" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant..... For 1" NPT Outlet, Add	667.07 117.83	45.62
22 11 19 00-0109 EA 10" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant..... For 1" NPT Outlet, Add	696.54 117.83	91.98
22 11 19 00-0110 EA 12" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant..... For 1" NPT Outlet, Add	696.54 117.83	91.98
22 11 19 00-0111 EA 18" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant..... For 1" NPT Outlet, Add	784.65 117.83	91.98
22 11 19 00-0112 Stainless Steel Box Type Wall Hydrants (22 11 19 00-0097) Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0113 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	493.99	36.79
22 11 19 00-0114 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141).....	538.15	36.79
22 11 19 00-0115 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	544.18	36.79
22 11 19 00-0116 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151).....	610.42	36.79
22 11 19 00-0117 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145)..... Note: Includes hot and cold hose connections.	857.77	51.51
22 11 19 00-0118 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146)..... Note: Includes hot and cold hose connections.	883.86	51.51
22 11 19 00-0119 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155)..... Note: Includes hot and cold hose connections.	883.86	51.51
22 11 19 00-0120 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156)..... Note: Includes hot and cold hose connections.	946.09	51.51
22 11 19 00-0121 Washer Boxes And Dryer Outlets (22 11 19)		
22 11 19 00-0122 Dryer Vent Kit (22 11 19 00-0121) Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0123 EA Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	96.13	19.13
22 11 19 00-0124 Washer Boxes And Dryer Vents <small>(22 11 19 00-0121)</small> Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0125 EA 2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves	346.27	29.43
22 11 19 00-0126 Ice Maker Outlet Box <small>(22 11 19)</small> Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0127 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	182.91	29.43
22 11 19 00-0128 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount	185.75	29.43
22 11 19 00-0129 EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	259.74	29.43
22 11 19 00-0130 Tempering Controllers For Potable Hot Water <small>(22 11 19)</small>		
22 11 19 00-0131 Point-Of-Use Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small> Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		
22 11 19 00-0132 EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....	569.23	35.62
22 11 19 00-0133 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....	153.80	35.62
22 11 19 00-0134 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....	327.13	35.62
22 11 19 00-0135 EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....	376.94	47.99
22 11 19 00-0136 Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small> Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0137 EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025)	1,536.94	51.37
22 11 19 00-0138 EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045)	1,726.21	63.28
22 11 19 00-0139 EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080)	2,074.77	73.60
22 11 19 00-0140 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130)	2,685.97	77.36
22 11 19 00-0141 EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	3,605.36	100.36
22 11 19 00-0142 High Low Temperature Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small> Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0143 EA 3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045)	3,907.94	79.12
22 11 19 00-0144 EA 1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080).....	5,084.23	92.00
22 11 19 00-0145 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....	5,927.41	96.70
22 11 19 00-0146 EA 2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200)	6,570.27	125.45
22 11 19 00-0147 Thermostatic Mixing Valves (Leonard) <small>(22 11 19 00-0130)</small> Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0148 EA 3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....	1,118.87	51.37
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0149 EA 1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....	1,317.85	63.27
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0150 EA 1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....	1,618.81	73.60
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0151 EA 1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....	1,976.70	77.39
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0152 EA 2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....	2,933.71	100.36
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0153 Water Mixing/Self Operating Temperature Regulator <small>(22 11 19 00-0130)</small> Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0154 EA 3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,205.55	73.58
22 11 19 00-0155 EA 1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,406.63	92.71
22 11 19 00-0156 EA 1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,759.59	111.84
22 11 19 00-0157 EA 1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	4,144.77	130.97
22 11 19 00-0158 EA 2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,915.32	172.18
22 11 19 00-0159 EA 2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	5,782.65	196.32
22 11 19 00-0160 Thermostatic Mixing Valves (Holby) <small>(22 11 19 00-0130)</small>		
22 11 19 00-0161 EA 2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500).....	5,212.87	100.39



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0162				Backflow Preventer Valves <small>(22 11 19)</small>		
22 11 19 00-0163				Double Check Valve Backflow Preventer Assemblies <small>(22 11 19 00-0162)</small>		
22 11 19 00-0164				Threaded Double Check Valve Assemblies <small>(22 11 19 00-0163)</small>		
22 11 19 00-0165				Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0164)</small>		
				Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0166	EA			1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	454.02	39.44
				<i>For Work In Restricted Working Space, Add</i>	29.58	
				<i>For Owner Furnished Material, Deduct</i>	-355.42	
22 11 19 00-0167	EA			3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	541.03	55.92
				<i>For Work In Restricted Working Space, Add</i>	41.94	
				<i>For Owner Furnished Material, Deduct</i>	-401.23	
22 11 19 00-0168	EA			1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	625.94	68.28
				<i>For Work In Restricted Working Space, Add</i>	51.21	
				<i>For Owner Furnished Material, Deduct</i>	-455.23	
22 11 19 00-0169	EA			1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	867.48	79.47
				<i>For Work In Restricted Working Space, Add</i>	59.60	
				<i>For Owner Furnished Material, Deduct</i>	-668.81	
22 11 19 00-0170	EA			1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	1,069.95	91.24
				<i>For Work In Restricted Working Space, Add</i>	67.99	
				<i>For Owner Furnished Material, Deduct</i>	-843.32	
22 11 19 00-0171	EA			2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	1,239.80	117.72
				<i>For Work In Restricted Working Space, Add</i>	88.30	
				<i>For Owner Furnished Material, Deduct</i>	-945.48	
22 11 19 00-0172				Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0164)</small>		
				Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0173	EA			1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	555.72	39.44
				<i>For Work In Restricted Working Space, Add</i>	29.58	
				<i>For Owner Furnished Material, Deduct</i>	-457.12	
22 11 19 00-0174	EA			3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	689.99	55.92
				<i>For Work In Restricted Working Space, Add</i>	41.94	
				<i>For Owner Furnished Material, Deduct</i>	-550.19	
22 11 19 00-0175	EA			1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	808.56	68.28
				<i>For Work In Restricted Working Space, Add</i>	51.21	
				<i>For Owner Furnished Material, Deduct</i>	-637.85	
22 11 19 00-0176	EA			1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,127.68	79.47
				<i>For Work In Restricted Working Space, Add</i>	59.60	
				<i>For Owner Furnished Material, Deduct</i>	-929.01	
22 11 19 00-0177	EA			1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,376.41	91.24
				<i>For Work In Restricted Working Space, Add</i>	67.99	
				<i>For Owner Furnished Material, Deduct</i>	-1,149.78	
22 11 19 00-0178	EA			2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,662.90	117.72
				<i>For Work In Restricted Working Space, Add</i>	88.30	
				<i>For Owner Furnished Material, Deduct</i>	-1,368.58	
22 11 19 00-0179				Flanged Double Check Valve Assemblies <small>(22 11 19 00-0163)</small>		
22 11 19 00-0180				Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small>		
				Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0181	EA			2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	5,943.29	325.17
				<i>For Work In Restricted Working Space, Add</i>	130.07	
				<i>For Owner Furnished Material, Deduct</i>	-5,509.73	
22 11 19 00-0182	EA			3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	6,531.24	365.82
				<i>For Work In Restricted Working Space, Add</i>	144.29	
				<i>For Owner Furnished Material, Deduct</i>	-6,050.26	
22 11 19 00-0183				Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small>		
				Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0184	EA			2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....	6,503.32	325.17
				<i>For Work In Restricted Working Space, Add</i>	130.07	
				<i>For Owner Furnished Material, Deduct</i>	-6,069.76	
22 11 19 00-0185	EA			3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY)	7,464.62	365.82
				<i>For Work In Restricted Working Space, Add</i>	144.29	
				<i>For Owner Furnished Material, Deduct</i>	-6,983.64	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0186 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0187 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	5,983.66	325.17
<i>For Work In Restricted Working Space, Add</i>	130.06	
<i>For Owner Furnished Material, Deduct</i>	-5,550.13	
22 11 19 00-0188 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	4,595.33	365.82
<i>For Work In Restricted Working Space, Add</i>	144.30	
<i>For Owner Furnished Material, Deduct</i>	-4,114.33	
22 11 19 00-0189 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	7,187.61	541.95
<i>For Work In Restricted Working Space, Add</i>	216.66	
<i>For Owner Furnished Material, Deduct</i>	-6,465.40	
22 11 19 00-0190 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	10,915.31	753.26
<i>For Work In Restricted Working Space, Add</i>	408.22	
<i>For Owner Furnished Material, Deduct</i>	-9,554.59	
22 11 19 00-0191 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	24,762.67	1,129.89
<i>For Work In Restricted Working Space, Add</i>	612.42	
<i>For Owner Furnished Material, Deduct</i>	-22,721.26	
22 11 19 00-0192 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	31,773.89	1,336.42
<i>For Work In Restricted Working Space, Add</i>	728.96	
<i>For Owner Furnished Material, Deduct</i>	-29,344.02	
22 11 19 00-0193 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0194 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	8,370.30	541.95
<i>For Work In Restricted Working Space, Add</i>	216.65	
<i>For Owner Furnished Material, Deduct</i>	-7,648.15	
22 11 19 00-0195 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	13,887.52	753.26
<i>For Work In Restricted Working Space, Add</i>	408.22	
<i>For Owner Furnished Material, Deduct</i>	-12,526.80	
22 11 19 00-0196 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	36,844.48	1,336.42
<i>For Work In Restricted Working Space, Add</i>	728.96	
<i>For Owner Furnished Material, Deduct</i>	-34,414.61	
22 11 19 00-0197 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
22 11 19 00-0198 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	6,350.05	325.17
<i>For Work In Restricted Working Space, Add</i>	130.06	
<i>For Owner Furnished Material, Deduct</i>	-5,916.52	
22 11 19 00-0199 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series)	6,978.42	365.82
<i>For Work In Restricted Working Space, Add</i>	144.29	
<i>For Owner Furnished Material, Deduct</i>	-6,497.44	
22 11 19 00-0200 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	7,616.63	541.95
<i>For Work In Restricted Working Space, Add</i>	216.65	
<i>For Owner Furnished Material, Deduct</i>	-6,894.48	
22 11 19 00-0201 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	12,739.60	753.26
<i>For Work In Restricted Working Space, Add</i>	408.22	
<i>For Owner Furnished Material, Deduct</i>	-11,378.88	
22 11 19 00-0202 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	26,277.40	1,129.89
<i>For Work In Restricted Working Space, Add</i>	612.33	
<i>For Owner Furnished Material, Deduct</i>	-24,236.31	
22 11 19 00-0203 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	33,728.73	1,336.42
<i>For Work In Restricted Working Space, Add</i>	728.96	
<i>For Owner Furnished Material, Deduct</i>	-31,298.86	
22 11 19 00-0204 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0205 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	3,818.91	325.17
<i>For Work In Restricted Working Space, Add</i>	130.06	
<i>For Owner Furnished Material, Deduct</i>	-3,385.38	
22 11 19 00-0206 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,205.10	365.82
<i>For Work In Restricted Working Space, Add</i>	144.29	
<i>For Owner Furnished Material, Deduct</i>	-3,724.12	
22 11 19 00-0207 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,785.00	541.95
<i>For Work In Restricted Working Space, Add</i>	216.65	
<i>For Owner Furnished Material, Deduct</i>	-4,062.85	
22 11 19 00-0208 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	7,713.56	753.26
<i>For Work In Restricted Working Space, Add</i>	408.22	
<i>For Owner Furnished Material, Deduct</i>	-6,352.84	
22 11 19 00-0209 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	14,601.19	1,129.89
<i>For Work In Restricted Working Space, Add</i>	612.33	
<i>For Owner Furnished Material, Deduct</i>	-12,560.10	
22 11 19 00-0210 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	15,870.06	1,336.42
<i>For Work In Restricted Working Space, Add</i>	728.96	
<i>For Owner Furnished Material, Deduct</i>	-13,440.19	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 19 00-0211	N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
22 11 19 00-0212	EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	5,020.12	325.17
	<i>For Work In Restricted Working Space, Add</i>	130.06	
	<i>For Owner Furnished Material, Deduct</i>	-4,586.59	
22 11 19 00-0213	EA 3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	5,406.30	365.82
	<i>For Work In Restricted Working Space, Add</i>	144.29	
	<i>For Owner Furnished Material, Deduct</i>	-4,925.32	
22 11 19 00-0214	EA 4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series).....	6,792.26	541.95
	<i>For Work In Restricted Working Space, Add</i>	216.65	
	<i>For Owner Furnished Material, Deduct</i>	-6,070.11	
22 11 19 00-0215	EA 6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	11,073.80	753.26
	<i>For Work In Restricted Working Space, Add</i>	408.22	
	<i>For Owner Furnished Material, Deduct</i>	-9,713.08	
22 11 19 00-0216	EA 8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	19,581.40	1,129.89
	<i>For Work In Restricted Working Space, Add</i>	612.33	
	<i>For Owner Furnished Material, Deduct</i>	-17,540.31	
22 11 19 00-0217	EA 10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	23,301.79	1,336.42
	<i>For Work In Restricted Working Space, Add</i>	728.96	
	<i>For Owner Furnished Material, Deduct</i>	-20,871.92	
22 11 19 00-0218	Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).		
22 11 19 00-0219	EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series)	3,580.00	325.17
	<i>For Work In Restricted Working Space, Add</i>	130.06	
	<i>For Owner Furnished Material, Deduct</i>	-3,146.47	
22 11 19 00-0220	EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,977.05	365.82
	<i>For Work In Restricted Working Space, Add</i>	144.29	
	<i>For Owner Furnished Material, Deduct</i>	-3,496.07	
22 11 19 00-0221	EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	4,567.68	541.95
	<i>For Work In Restricted Working Space, Add</i>	216.65	
	<i>For Owner Furnished Material, Deduct</i>	-3,845.53	
22 11 19 00-0222	EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	7,542.83	753.26
	<i>For Work In Restricted Working Space, Add</i>	408.22	
	<i>For Owner Furnished Material, Deduct</i>	-6,182.11	
22 11 19 00-0223	EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series)	14,436.66	1,129.89
	<i>For Work In Restricted Working Space, Add</i>	612.33	
	<i>For Owner Furnished Material, Deduct</i>	-12,395.57	
22 11 19 00-0224	EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series)	16,329.44	1,336.42
	<i>For Work In Restricted Working Space, Add</i>	728.96	
	<i>For Owner Furnished Material, Deduct</i>	-13,899.57	
22 11 19 00-0225	N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).		
22 11 19 00-0226	EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	4,680.48	325.17
	<i>For Work In Restricted Working Space, Add</i>	130.06	
	<i>For Owner Furnished Material, Deduct</i>	-4,246.95	
22 11 19 00-0227	EA 3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	5,066.66	365.82
	<i>For Work In Restricted Working Space, Add</i>	144.29	
	<i>For Owner Furnished Material, Deduct</i>	-4,585.68	
22 11 19 00-0228	EA 4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	6,453.04	541.95
	<i>For Work In Restricted Working Space, Add</i>	216.65	
	<i>For Owner Furnished Material, Deduct</i>	-5,730.89	
22 11 19 00-0229	EA 6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	10,712.49	753.26
	<i>For Work In Restricted Working Space, Add</i>	408.22	
	<i>For Owner Furnished Material, Deduct</i>	-9,351.77	
22 11 19 00-0230	EA 8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	19,034.53	1,129.89
	<i>For Work In Restricted Working Space, Add</i>	612.33	
	<i>For Owner Furnished Material, Deduct</i>	-16,993.44	
22 11 19 00-0231	EA 10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	22,753.32	1,336.42
	<i>For Work In Restricted Working Space, Add</i>	728.96	
	<i>For Owner Furnished Material, Deduct</i>	-20,323.45	
22 11 19 00-0232	Double Check Valve Assemblies With Butterfly Shut-Off Valves <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0233	EA		2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	4,145.04	325.17
			<i>For Work In Restricted Working Space, Add</i>	130.06	
			<i>For Owner Furnished Material, Deduct</i>	-3,711.51	
22 11 19 00-0234	EA		3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	4,531.22	365.82
			<i>For Work In Restricted Working Space, Add</i>	144.29	
			<i>For Owner Furnished Material, Deduct</i>	-4,050.24	
22 11 19 00-0235	EA		4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	5,111.13	541.95
			<i>For Work In Restricted Working Space, Add</i>	216.65	
			<i>For Owner Furnished Material, Deduct</i>	-4,388.98	
22 11 19 00-0236	EA		6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	8,047.90	753.26
			<i>For Work In Restricted Working Space, Add</i>	408.22	
			<i>For Owner Furnished Material, Deduct</i>	-6,687.18	
22 11 19 00-0237	EA		8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	14,935.53	1,129.89
			<i>For Work In Restricted Working Space, Add</i>	612.33	
			<i>For Owner Furnished Material, Deduct</i>	-12,894.44	
22 11 19 00-0238			N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs (22 11 19 00-0179)		
			Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0239	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	5,346.25	325.17
			<i>For Work In Restricted Working Space, Add</i>	130.06	
			<i>For Owner Furnished Material, Deduct</i>	-4,912.72	
22 11 19 00-0240	EA		3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	5,732.43	365.82
			<i>For Work In Restricted Working Space, Add</i>	144.29	
			<i>For Owner Furnished Material, Deduct</i>	-5,251.45	
22 11 19 00-0241	EA		4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	7,118.38	541.95
			<i>For Work In Restricted Working Space, Add</i>	216.65	
			<i>For Owner Furnished Material, Deduct</i>	-6,396.23	
22 11 19 00-0242	EA		6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	11,408.21	753.26
			<i>For Work In Restricted Working Space, Add</i>	408.22	
			<i>For Owner Furnished Material, Deduct</i>	-10,047.49	
22 11 19 00-0243	EA		8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	14,935.53	1,129.89
			<i>For Work In Restricted Working Space, Add</i>	612.33	
			<i>For Owner Furnished Material, Deduct</i>	-12,894.44	
22 11 19 00-0244			Grooved Double Check Valve Assemblies (22 11 19 00-0163)		
22 11 19 00-0245			Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0244)		
			Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0246	EA		2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series)	3,580.00	173.42
			<i>For Work In Restricted Working Space, Add</i>	130.06	
			<i>For Owner Furnished Material, Deduct</i>	-3,146.47	
22 11 19 00-0247	EA		3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series)	3,977.05	192.39
			<i>For Work In Restricted Working Space, Add</i>	144.29	
			<i>For Owner Furnished Material, Deduct</i>	-3,496.07	
22 11 19 00-0248			N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0244)		
			Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0249	EA		2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)	4,680.48	173.42
			<i>For Work In Restricted Working Space, Add</i>	130.06	
			<i>For Owner Furnished Material, Deduct</i>	-4,246.95	
22 11 19 00-0250	EA		3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)	5,066.66	192.39
			<i>For Work In Restricted Working Space, Add</i>	144.29	
			<i>For Owner Furnished Material, Deduct</i>	-4,585.68	
22 11 19 00-0251			Reduced Pressure Zone Backflow Preventer Assemblies (22 11 19 00-0162)		
22 11 19 00-0252			Threaded Reduced Pressure Zone Assemblies (22 11 19 00-0251)		
22 11 19 00-0253			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0252)		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0254	EA		1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	498.73	34.14
			<i>For Work In Restricted Working Space, Add</i>	25.61	
			<i>For Owner Furnished Material, Deduct</i>	-413.38	
22 11 19 00-0255	EA		3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	527.64	37.67
			<i>For Work In Restricted Working Space, Add</i>	28.26	
			<i>For Owner Furnished Material, Deduct</i>	-433.45	
22 11 19 00-0256	EA		1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	612.06	39.44
			<i>For Work In Restricted Working Space, Add</i>	29.58	
			<i>For Owner Furnished Material, Deduct</i>	-513.46	
22 11 19 00-0257	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	823.64	55.92
			<i>For Work In Restricted Working Space, Add</i>	41.94	
			<i>For Owner Furnished Material, Deduct</i>	-683.84	
22 11 19 00-0258	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	978.30	68.28
			<i>For Work In Restricted Working Space, Add</i>	51.21	
			<i>For Owner Furnished Material, Deduct</i>	-807.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0259	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,465.55	79.47
			<i>For Work In Restricted Working Space, Add</i>	59.60	
			<i>For Owner Furnished Material, Deduct</i>	-1,266.88	
22 11 19 00-0260	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,553.09	91.24
			<i>For Work In Restricted Working Space, Add</i>	67.99	
			<i>For Owner Furnished Material, Deduct</i>	-1,326.46	
22 11 19 00-0261	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,868.37	117.72
			<i>For Work In Restricted Working Space, Add</i>	88.30	
			<i>For Owner Furnished Material, Deduct</i>	-1,574.05	
22 11 19 00-0262			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0263	EA		1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	548.77	34.14
			<i>For Work In Restricted Working Space, Add</i>	25.61	
			<i>For Owner Furnished Material, Deduct</i>	-463.42	
22 11 19 00-0264	EA		3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	580.38	37.67
			<i>For Work In Restricted Working Space, Add</i>	28.26	
			<i>For Owner Furnished Material, Deduct</i>	-486.19	
22 11 19 00-0265	EA		1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	684.34	55.92
			<i>For Work In Restricted Working Space, Add</i>	29.58	
			<i>For Owner Furnished Material, Deduct</i>	-585.74	
22 11 19 00-0266	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	937.22	55.92
			<i>For Work In Restricted Working Space, Add</i>	41.94	
			<i>For Owner Furnished Material, Deduct</i>	-797.42	
22 11 19 00-0267	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,120.33	68.28
			<i>For Work In Restricted Working Space, Add</i>	51.21	
			<i>For Owner Furnished Material, Deduct</i>	-949.62	
22 11 19 00-0268	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,659.23	79.47
			<i>For Work In Restricted Working Space, Add</i>	59.60	
			<i>For Owner Furnished Material, Deduct</i>	-1,460.56	
22 11 19 00-0269	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,826.42	91.24
			<i>For Work In Restricted Working Space, Add</i>	67.99	
			<i>For Owner Furnished Material, Deduct</i>	-1,599.79	
22 11 19 00-0270	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	2,203.72	117.72
			<i>For Work In Restricted Working Space, Add</i>	88.30	
			<i>For Owner Furnished Material, Deduct</i>	-1,909.40	
22 11 19 00-0271			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0252)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0272	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	823.64	55.92
			<i>For Work In Restricted Working Space, Add</i>	41.94	
			<i>For Owner Furnished Material, Deduct</i>	-683.84	
22 11 19 00-0273	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	978.30	68.28
			<i>For Work In Restricted Working Space, Add</i>	51.21	
			<i>For Owner Furnished Material, Deduct</i>	-807.59	
22 11 19 00-0274	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,465.55	79.47
			<i>For Work In Restricted Working Space, Add</i>	59.60	
			<i>For Owner Furnished Material, Deduct</i>	-1,266.88	
22 11 19 00-0275	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,553.09	91.24
			<i>For Work In Restricted Working Space, Add</i>	67.99	
			<i>For Owner Furnished Material, Deduct</i>	-1,326.46	
22 11 19 00-0276	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,868.37	117.72
			<i>For Work In Restricted Working Space, Add</i>	88.30	
			<i>For Owner Furnished Material, Deduct</i>	-1,574.05	
22 11 19 00-0277			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0278	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	937.22	55.92
			<i>For Work In Restricted Working Space, Add</i>	41.94	
			<i>For Owner Furnished Material, Deduct</i>	-797.42	
22 11 19 00-0279	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,120.33	68.28
			<i>For Work In Restricted Working Space, Add</i>	51.21	
			<i>For Owner Furnished Material, Deduct</i>	-949.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0280 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,659.23	79.47
For Work In Restricted Working Space, Add	59.60	
For Owner Furnished Material, Deduct	-1,460.56	
22 11 19 00-0281 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,826.42	91.24
For Work In Restricted Working Space, Add	67.99	
For Owner Furnished Material, Deduct	-1,599.79	
22 11 19 00-0282 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	2,203.72	117.72
For Work In Restricted Working Space, Add	88.30	
For Owner Furnished Material, Deduct	-1,909.40	
22 11 19 00-0283 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0284 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,667.27	55.92
For Work In Restricted Working Space, Add	41.94	
For Owner Furnished Material, Deduct	-1,527.47	
22 11 19 00-0285 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,974.62	68.28
For Work In Restricted Working Space, Add	51.21	
For Owner Furnished Material, Deduct	-1,803.91	
22 11 19 00-0286 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	3,024.75	79.47
For Work In Restricted Working Space, Add	59.60	
For Owner Furnished Material, Deduct	-2,826.08	
22 11 19 00-0287 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	3,272.57	91.24
For Work In Restricted Working Space, Add	67.99	
For Owner Furnished Material, Deduct	-3,045.94	
22 11 19 00-0288 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT).....	3,803.13	117.72
For Work In Restricted Working Space, Add	88.30	
For Owner Furnished Material, Deduct	-3,508.81	
22 11 19 00-0289 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0290 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	2,235.06	55.92
For Work In Restricted Working Space, Add	41.94	
For Owner Furnished Material, Deduct	-2,095.26	
22 11 19 00-0291 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	2,657.86	68.28
For Work In Restricted Working Space, Add	51.21	
For Owner Furnished Material, Deduct	-2,487.15	
22 11 19 00-0292 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	4,038.95	79.47
For Work In Restricted Working Space, Add	59.60	
For Owner Furnished Material, Deduct	-3,840.28	
22 11 19 00-0293 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	4,414.06	91.24
For Work In Restricted Working Space, Add	67.99	
For Owner Furnished Material, Deduct	-4,187.43	
22 11 19 00-0294 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	5,248.57	117.72
For Work In Restricted Working Space, Add	88.30	
For Owner Furnished Material, Deduct	-4,954.25	
22 11 19 00-0295 Flanged Reduced Pressure Zone Assemblies <small>(22 11 19 00-0251)</small>		
22 11 19 00-0296 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0297 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	5,473.81	325.17
For Work In Restricted Working Space, Add	130.07	
For Owner Furnished Material, Deduct	-5,040.25	
22 11 19 00-0298 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	6,166.24	365.82
For Work In Restricted Working Space, Add	144.29	
For Owner Furnished Material, Deduct	-5,685.26	
22 11 19 00-0299 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0300 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	6,507.50	325.17
For Work In Restricted Working Space, Add	130.07	
For Owner Furnished Material, Deduct	-6,073.94	
22 11 19 00-0301 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	7,367.10	365.82
For Work In Restricted Working Space, Add	144.29	
For Owner Furnished Material, Deduct	-6,886.12	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0302		Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0303	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	5,869.46	325.17
		<i>For Work In Restricted Working Space, Add</i>	130.07	
		<i>For Owner Furnished Material, Deduct</i>	-5,435.90	
22 11 19 00-0304	EA	3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	6,823.79	365.82
		<i>For Work In Restricted Working Space, Add</i>	144.29	
		<i>For Owner Furnished Material, Deduct</i>	-6,342.81	
22 11 19 00-0305		Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0306	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	6,507.50	325.17
		<i>For Work In Restricted Working Space, Add</i>	130.07	
		<i>For Owner Furnished Material, Deduct</i>	-6,073.94	
22 11 19 00-0307	EA	3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	7,367.10	365.82
		<i>For Work In Restricted Working Space, Add</i>	144.29	
		<i>For Owner Furnished Material, Deduct</i>	-6,886.12	
22 11 19 00-0308		Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0309	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	7,213.80	325.17
		<i>For Work In Restricted Working Space, Add</i>	130.07	
		<i>For Owner Furnished Material, Deduct</i>	-6,780.24	
22 11 19 00-0310	EA	3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	8,343.66	365.82
		<i>For Work In Restricted Working Space, Add</i>	144.29	
		<i>For Owner Furnished Material, Deduct</i>	-7,862.68	
22 11 19 00-0311		Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0312	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	9,334.08	325.17
		<i>For Work In Restricted Working Space, Add</i>	130.06	
		<i>For Owner Furnished Material, Deduct</i>	-8,900.55	
22 11 19 00-0313	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	10,601.91	365.82
		<i>For Work In Restricted Working Space, Add</i>	144.30	
		<i>For Owner Furnished Material, Deduct</i>	-10,120.91	
22 11 19 00-0314	EA	4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	13,374.39	541.95
		<i>For Work In Restricted Working Space, Add</i>	216.66	
		<i>For Owner Furnished Material, Deduct</i>	-12,652.18	
22 11 19 00-0315	EA	6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	20,288.34	753.26
		<i>For Work In Restricted Working Space, Add</i>	571.54	
		<i>For Owner Furnished Material, Deduct</i>	-18,383.20	
22 11 19 00-0316	EA	8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	33,601.10	1,129.89
		<i>For Work In Restricted Working Space, Add</i>	857.31	
		<i>For Owner Furnished Material, Deduct</i>	-30,743.39	
22 11 19 00-0317	EA	10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	43,148.80	1,336.42
		<i>For Work In Restricted Working Space, Add</i>	728.96	
		<i>For Owner Furnished Material, Deduct</i>	-40,718.93	
22 11 19 00-0318		Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
22 11 19 00-0319	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	10,051.53	325.17
		<i>For Work In Restricted Working Space, Add</i>	130.06	
		<i>For Owner Furnished Material, Deduct</i>	-9,618.00	
22 11 19 00-0320	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	11,356.95	365.82
		<i>For Work In Restricted Working Space, Add</i>	144.29	
		<i>For Owner Furnished Material, Deduct</i>	-10,875.97	
22 11 19 00-0321	EA	4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	14,532.00	541.95
		<i>For Work In Restricted Working Space, Add</i>	216.65	
		<i>For Owner Furnished Material, Deduct</i>	-13,809.85	
22 11 19 00-0322	EA	6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	21,922.95	753.26
		<i>For Work In Restricted Working Space, Add</i>	408.22	
		<i>For Owner Furnished Material, Deduct</i>	-20,562.23	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0323	EA	8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	35,474.70	1,129.89
		<i>For Work In Restricted Working Space, Add</i>	612.33	
		<i>For Owner Furnished Material, Deduct</i>	-33,433.61	
22 11 19 00-0324	EA	10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	48,088.02	1,336.42
		<i>For Work In Restricted Working Space, Add</i>	728.96	
		<i>For Owner Furnished Material, Deduct</i>	-45,658.15	
22 11 19 00-0325		Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0295)</small>		
		Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
22 11 19 00-0326	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	9,924.75	325.17
		<i>For Work In Restricted Working Space, Add</i>	130.06	
		<i>For Owner Furnished Material, Deduct</i>	-9,491.22	
22 11 19 00-0327	EA	3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)....	11,278.96	365.82
		<i>For Work In Restricted Working Space, Add</i>	144.30	
		<i>For Owner Furnished Material, Deduct</i>	-10,797.96	
22 11 19 00-0328	EA	4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)....	14,215.83	541.95
		<i>For Work In Restricted Working Space, Add</i>	216.66	
		<i>For Owner Furnished Material, Deduct</i>	-13,493.62	
22 11 19 00-0329	EA	6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)....	20,970.53	753.26
		<i>For Work In Restricted Working Space, Add</i>	408.22	
		<i>For Owner Furnished Material, Deduct</i>	-19,609.81	
22 11 19 00-0330	EA	8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	34,834.99	1,129.89
		<i>For Work In Restricted Working Space, Add</i>	612.33	
		<i>For Owner Furnished Material, Deduct</i>	-32,793.90	
22 11 19 00-0331	EA	10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	45,861.87	1,336.42
		<i>For Work In Restricted Working Space, Add</i>	728.96	
		<i>For Owner Furnished Material, Deduct</i>	-43,432.00	
22 11 19 00-0332		Double Check Detector Assemblies <small>(22 11 19 00-0162)</small>		
22 11 19 00-0333		Flanged Double Check Detector Assemblies With Meter <small>(22 11 19 00-0332)</small>		
22 11 19 00-0334		Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter <small>(22 11 19 00-0333)</small>		
		Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0335	EA	3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	7,478.62	365.82
		<i>For Work In Restricted Working Space, Add</i>	144.29	
		<i>For Owner Furnished Material, Deduct</i>	-6,997.64	
22 11 19 00-0336	EA	4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	7,882.15	541.95
		<i>For Work In Restricted Working Space, Add</i>	216.65	
		<i>For Owner Furnished Material, Deduct</i>	-7,160.00	
22 11 19 00-0337	EA	6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	10,658.23	753.26
		<i>For Work In Restricted Working Space, Add</i>	408.22	
		<i>For Owner Furnished Material, Deduct</i>	-9,297.51	
22 11 19 00-0338	EA	8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	18,846.88	1,129.89
		<i>For Work In Restricted Working Space, Add</i>	612.33	
		<i>For Owner Furnished Material, Deduct</i>	-16,805.79	
22 11 19 00-0339	EA	10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	25,397.71	1,336.42
		<i>For Work In Restricted Working Space, Add</i>	728.96	
		<i>For Owner Furnished Material, Deduct</i>	-22,967.84	
22 11 19 00-0340		Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter <small>(22 11 19 00-0333)</small>		
		Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0341	EA	2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,617.65	325.17
		<i>For Work In Restricted Working Space, Add</i>	130.07	
		<i>For Owner Furnished Material, Deduct</i>	-5,184.09	
22 11 19 00-0342	EA	3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	6,003.46	365.82
		<i>For Work In Restricted Working Space, Add</i>	144.29	
		<i>For Owner Furnished Material, Deduct</i>	-5,522.48	
22 11 19 00-0343	EA	4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	6,591.37	541.95
		<i>For Work In Restricted Working Space, Add</i>	216.65	
		<i>For Owner Furnished Material, Deduct</i>	-5,869.22	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0344	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	8,981.84	753.26
			<i>For Work In Restricted Working Space, Add</i>	408.22	
			<i>For Owner Furnished Material, Deduct</i>	-7,621.12	
22 11 19 00-0345	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	15,816.95	1,129.89
			<i>For Work In Restricted Working Space, Add</i>	612.33	
			<i>For Owner Furnished Material, Deduct</i>	-13,775.86	
22 11 19 00-0346	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	18,655.99	1,336.42
			<i>For Work In Restricted Working Space, Add</i>	728.96	
			<i>For Owner Furnished Material, Deduct</i>	-16,226.12	
22 11 19 00-0347			Double Check Detector Assembly With Butterfly Valves And Meter <small>(22 11 19 00-0333)</small>		
			Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0348	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	5,943.85	325.17
			<i>For Work In Restricted Working Space, Add</i>	130.07	
			<i>For Owner Furnished Material, Deduct</i>	-5,510.29	
22 11 19 00-0349	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	6,329.65	365.82
			<i>For Work In Restricted Working Space, Add</i>	144.29	
			<i>For Owner Furnished Material, Deduct</i>	-5,848.67	
22 11 19 00-0350	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	6,917.50	541.95
			<i>For Work In Restricted Working Space, Add</i>	216.65	
			<i>For Owner Furnished Material, Deduct</i>	-6,195.35	
22 11 19 00-0351	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	9,316.19	753.26
			<i>For Work In Restricted Working Space, Add</i>	408.22	
			<i>For Owner Furnished Material, Deduct</i>	-7,955.47	
22 11 19 00-0352	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	15,415.80	1,129.89
			<i>For Work In Restricted Working Space, Add</i>	612.33	
			<i>For Owner Furnished Material, Deduct</i>	-13,374.71	
22 11 19 00-0353			Flanged Double Check Detector Assemblies Without Meter <small>(22 11 19 00-0332)</small>		
22 11 19 00-0354			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter <small>(22 11 19 00-0353)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0355	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	5,514.66	325.17
			<i>For Work In Restricted Working Space, Add</i>	130.07	
22 11 19 00-0356	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	5,900.51	365.82
			<i>For Work In Restricted Working Space, Add</i>	144.29	
22 11 19 00-0357	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	6,488.42	541.95
			<i>For Work In Restricted Working Space, Add</i>	216.65	
22 11 19 00-0358	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	8,878.89	753.26
			<i>For Work In Restricted Working Space, Add</i>	408.22	
22 11 19 00-0359	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	15,714.07	1,129.89
			<i>For Work In Restricted Working Space, Add</i>	612.33	
22 11 19 00-0360	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	18,552.97	1,336.42
			<i>For Work In Restricted Working Space, Add</i>	728.96	
22 11 19 00-0361			Double Check Detector Assembly With Butterfly Valves Less Meter <small>(22 11 19 00-0353)</small>		
			Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0362	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	5,840.83	325.17
			<i>For Work In Restricted Working Space, Add</i>	130.07	
22 11 19 00-0363	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	6,226.63	365.82
			<i>For Work In Restricted Working Space, Add</i>	144.29	
22 11 19 00-0364	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	6,814.55	541.95
			<i>For Work In Restricted Working Space, Add</i>	216.65	
22 11 19 00-0365	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	9,213.17	753.26
			<i>For Work In Restricted Working Space, Add</i>	408.22	
22 11 19 00-0366	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	16,048.41	1,129.89
			<i>For Work In Restricted Working Space, Add</i>	612.33	
22 11 19 00-0367			Flanged Double Check Detector Assemblies <small>(22 11 19 00-0332)</small>		
22 11 19 00-0368			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0367)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 774 DCDA OSY series).		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0369 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	5,328.30	325.17
For Work In Restricted Working Space, Add	130.07	
For Owner Furnished Material, Deduct	-4,894.74	
22 11 19 00-0370 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	6,439.50	365.82
For Work In Restricted Working Space, Add	144.29	
For Owner Furnished Material, Deduct	-5,958.52	
22 11 19 00-0371 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	7,186.58	541.95
For Work In Restricted Working Space, Add	216.65	
For Owner Furnished Material, Deduct	-6,464.43	
22 11 19 00-0372 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	9,097.75	753.26
For Work In Restricted Working Space, Add	408.22	
For Owner Furnished Material, Deduct	-7,737.03	
22 11 19 00-0373 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	16,026.54	1,129.89
For Work In Restricted Working Space, Add	612.33	
For Owner Furnished Material, Deduct	-13,985.45	
22 11 19 00-0374 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	21,543.13	1,336.42
For Work In Restricted Working Space, Add	728.96	
For Owner Furnished Material, Deduct	-19,113.26	
22 11 19 00-0375 EA 12" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	28,688.77	1,603.71
For Work In Restricted Working Space, Add	874.75	
For Owner Furnished Material, Deduct	-25,772.93	
22 11 19 00-0376 Backflow Preventer Accessories (22 11 19 00-0162)		
22 11 19 00-0377 Air Gap (22 11 19 00-0376)		
22 11 19 00-0378 EA Up To 1" Diameter Air Gap For Backflow Preventer	131.37	18.40
22 11 19 00-0379 EA 1-1/4" To 2" Diameter Air Gap For Backflow Preventer	161.41	22.08
22 11 19 00-0380 EA 2-1/2" To 3" Diameter Air Gap For Backflow Preventer	297.56	29.43
22 11 19 00-0381 EA 4" To 6" Diameter Air Gap For Backflow Preventer	585.47	51.51
22 11 19 00-0382 EA 8" To 10" Diameter Air Gap For Backflow Preventer	629.62	73.58
22 11 19 00-0383 Brass Test Cocks (22 11 19 00-0376)		
22 11 19 00-0384 EA 1/8" Or 1/4" Brass Test Cock.....	53.42	7.36
22 11 19 00-0385 Backflow Valve Enclosures (22 11 19 00-0162)		
22 11 19 00-0386 Flip-Top, Insulated Fiberglass Valve Enclosures (22 11 19 00-0385)		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0387 EA 19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,261.97	132.44
For Heated Enclosure, Add	156.18	
22 11 19 00-0388 EA 27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,553.31	132.44
For Heated Enclosure, Add	199.89	
22 11 19 00-0389 EA 27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,971.55	121.94
For Heated Enclosure, Add	265.25	
22 11 19 00-0390 EA 33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,046.89	162.59
For Heated Enclosure, Add	266.39	
22 11 19 00-0391 EA 39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,145.69	162.59
For Heated Enclosure, Add	281.21	
22 11 19 00-0392 EA 47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,530.77	162.59
For Heated Enclosure, Add	338.97	
22 11 19 00-0393 EA 39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,540.91	162.59
For Heated Enclosure, Add	340.49	
22 11 19 00-0394 EA 47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	3,197.06	162.59
For Heated Enclosure, Add	438.91	
22 11 19 00-0395 EA 70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	7,370.80	243.87
For Heated Enclosure, Add	1,044.65	
22 11 19 00-0396 EA 83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	10,681.97	243.87
For Heated Enclosure, Add	1,541.33	
22 11 19 00-0397 EA 70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	10,149.95	243.87
For Heated Enclosure, Add	1,461.52	
22 11 19 00-0398 EA 83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	12,221.62	284.52
For Heated Enclosure, Add	1,762.11	
22 11 19 00-0399 One-Piece Drop Over, Insulated Fiberglass Valve Enclosures (22 11 19 00-0385)		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0400 EA 20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	692.22	35.32
For Heated Enclosure, Add	126.67	
22 11 19 00-0401 EA 27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	960.76	35.32
For Heated Enclosure, Add	180.38	
22 11 19 00-0402 EA 38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	1,204.36	32.52
For Heated Enclosure, Add	230.03	
22 11 19 00-0403 EA 47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	1,817.44	32.52
For Heated Enclosure, Add	352.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0404	EA		70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	4,702.29	60.97
			<i>For Heated Enclosure, Add</i>	920.13	
22 11 19 00-0405	EA		83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	6,417.41	60.97
			<i>For Heated Enclosure, Add</i>	1,263.16	
22 11 19 00-0406	EA		45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	4,276.68	60.97
			<i>For Heated Enclosure, Add</i>	835.01	
22 11 19 00-0407	EA		53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	4,839.10	60.97
			<i>For Heated Enclosure, Add</i>	947.50	
22 11 19 00-0408	EA		61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	7,567.58	60.97
			<i>For Heated Enclosure, Add</i>	1,493.19	
22 11 19 00-0409			Sectional, Insulated Aluminum Valve Enclosures <small>(22 11 19 00-0385)</small>		
			Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0410	EA		70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	9,592.16	264.89
			<i>For Heated Enclosure, Add</i>	1,372.60	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0411	EA		83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	10,572.59	264.89
			<i>For Heated Enclosure, Add</i>	1,519.67	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0412	EA		53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	7,489.87	243.87
			<i>For Heated Enclosure, Add</i>	1,062.51	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0413	EA		53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	8,214.43	243.87
			<i>For Heated Enclosure, Add</i>	1,171.20	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0414	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	9,558.36	325.17
			<i>For Heated Enclosure, Add</i>	1,352.46	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0415	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	10,718.66	325.17
			<i>For Heated Enclosure, Add</i>	1,526.51	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0416	EA		90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,718.66	325.17
			<i>For Heated Enclosure, Add</i>	1,526.51	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0417	EA		102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	11,843.49	325.17
			<i>For Heated Enclosure, Add</i>	1,695.23	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0418	EA		62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure	8,892.72	284.52
			<i>For Heated Enclosure, Add</i>	1,262.78	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0419	EA		62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure	10,412.12	325.17
			<i>For Heated Enclosure, Add</i>	1,480.53	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0420	EA		105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure	12,167.77	325.17
			<i>For Heated Enclosure, Add</i>	1,743.87	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0421	EA		125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure	13,356.87	345.49
			<i>For Heated Enclosure, Add</i>	1,917.16	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0422	EA		105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure	13,697.84	375.26
			<i>For Heated Enclosure, Add</i>	1,960.86	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0423	EA		125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure	15,183.73	397.33
			<i>For Heated Enclosure, Add</i>	2,178.23	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0424	EA		105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure	15,711.35	365.82
			<i>For Heated Enclosure, Add</i>	2,265.25	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0425	EA		72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure	11,407.75	325.17
			<i>For Heated Enclosure, Add</i>	1,629.87	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0426	EA		72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure	12,160.17	325.17
			<i>For Heated Enclosure, Add</i>	1,742.73	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	
22 11 19 00-0427	EA		72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure	13,759.69	345.49
			<i>For Heated Enclosure, Add</i>	1,977.58	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	795.37	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,423.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0428 EA 72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	16,676.58 2,410.03 795.37 1,423.29	365.82
22 11 19 00-0429 EA 118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	14,551.05 2,091.20 795.37 1,423.29	162.59
22 11 19 00-0430 EA 142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	17,485.68 2,526.32 795.37 1,423.29	162.59
22 11 19 00-0431 EA 118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	16,905.53 2,439.29 795.37 1,423.29	243.87
22 11 19 00-0432 EA 142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	19,615.62 2,835.65 795.37 1,423.29	243.87
22 11 19 00-0433 EA 142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	18,099.69 2,613.34 795.37 1,423.29	243.87
22 11 19 00-0434 EA 172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	21,154.33 3,061.37 795.37 1,423.29	284.52
22 11 19 00-0435 EA 142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	21,222.07 3,061.37 795.37 1,423.29	243.87
22 11 19 00-0436 EA 172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	25,178.60 3,644.69 795.37 1,423.29	243.87
22 11 19 00-0437 Faucets (Hose Bibbs) <small>(22 11 19)</small>		
22 11 19 00-0438 Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends <small>(22 11 19 00-0437)</small>		
22 11 19 00-0439 EA 1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	74.50	14.72
22 11 19 00-0440 EA 3/4", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	86.83	16.19
22 11 19 00-0441 EA 3/4" Screwed Ends Vacuum Breaker (Mueller 108-904NL).....	21.92	11.04
22 11 19 00-0442 Chrome Plated Brass Hose Valves, Screwed Ends <small>(22 11 19 00-0437)</small>		
22 11 19 00-0443 EA 3/4" Hose Valve With Screwed Ends (Chicago Faucets #387-CP).....	229.41	45.03
22 11 19 00-0444 Antisiphon Freezeless Wall Faucet (Woodford 19CP) <small>(22 11 19 00-0437)</small>		
22 11 19 00-0445 EA 4" Long, 1/2" Antisiphon Freezeless Wall Faucet	158.89	36.79
22 11 19 00-0446 EA 6" Long, 1/2" Antisiphon Freezeless Wall Faucet	172.90	40.76
22 11 19 00-0447 EA 8" Long, 1/2" Antisiphon Freezeless Wall Faucet	183.23	43.12
22 11 19 00-0448 EA 10" Long, 1/2" Antisiphon Freezeless Wall Faucet	193.55	46.21
22 11 19 00-0449 EA 12" Long, 1/2" Antisiphon Freezeless Wall Faucet	204.02	49.00
22 11 19 00-0450 Escutcheons <small>(22 11 19)</small>		
22 11 19 00-0451 Brass Escutcheons <small>(22 11 19 00-0450)</small>		
22 11 19 00-0452 Shallow Brass Escutcheons <small>(22 11 19 00-0451)</small>		
22 11 19 00-0453 EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon.....	14.93	3.68
22 11 19 00-0454 EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon.....	15.96	3.68
22 11 19 00-0455 Deep Bell Brass Escutcheons <small>(22 11 19 00-0451)</small>		
22 11 19 00-0456 EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	17.29	4.12
22 11 19 00-0457 EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	17.33	4.12
22 11 19 00-0458 Chrome Plated Brass Escutcheons With Setscrew <small>(22 11 19 00-0451)</small>		
22 11 19 00-0459 EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.15	3.68
22 11 19 00-0460 EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.42	3.68
22 11 19 00-0461 EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.81	3.68
22 11 19 00-0462 EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	28.25	3.68
22 11 19 00-0463 EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	28.72	4.41
22 11 19 00-0464 EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew	30.11	4.41
22 11 19 00-0465 EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	31.24	4.86
22 11 19 00-0466 EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	32.71	5.15
22 11 19 00-0467 EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew	46.66	5.88



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0468				Plastic Escutcheons (22 11 19 00-0450)		
22 11 19 00-0469				Split-Ring White Plastic Escutcheons (22 11 19 00-0468)		
22 11 19 00-0470	EA			3/8" IPS, Split-Ring White Plastic Escutcheon.....	8.61	3.66
22 11 19 00-0471	EA			1/2" IPS, Split-Ring White Plastic Escutcheon.....	8.61	3.66
22 11 19 00-0472	EA			3/4" IPS, Split-Ring White Plastic Escutcheon.....	9.95	4.10
22 11 19 00-0473	EA			1" IPS, Split-Ring White Plastic Escutcheon.....	10.79	4.40
22 11 19 00-0474	EA			1-1/4" IPS, Split-Ring White Plastic Escutcheon.....	11.64	4.84
22 11 19 00-0475	EA			1-1/2" IPS, Split-Ring White Plastic Escutcheon.....	12.45	5.13
22 11 19 00-0476	EA			2" IPS, Split-Ring White Plastic Escutcheon.....	14.06	5.86
22 11 19 00-0477	EA			2-1/2" IPS, Split-Ring White Plastic Escutcheon.....	17.49	6.30
22 11 19 00-0478	EA			3" IPS, Split-Ring White Plastic Escutcheon.....	20.92	6.59
22 11 19 00-0479	EA			4" IPS, Split-Ring White Plastic Escutcheon.....	25.08	7.33
22 11 19 00-0480				Chrome Plate Plastic Escutcheons (22 11 19 00-0468)		
22 11 19 00-0481	EA			1/2" IPS, Chrome Plate Plastic Escutcheon.....	10.82	3.66
22 11 19 00-0482	EA			3/4" IPS, Chrome Plate Plastic Escutcheon.....	11.84	4.10
22 11 19 00-0483	EA			1" IPS, Chrome Plate Plastic Escutcheon.....	13.23	4.40
22 11 19 00-0484	EA			1-1/4" IPS, Chrome Plate Plastic Escutcheon.....	14.62	4.84
22 11 19 00-0485	EA			1-1/2" IPS, Chrome Plate Plastic Escutcheon.....	15.45	5.13
22 11 19 00-0486	EA			2" IPS, Chrome Plate Plastic Escutcheon.....	19.18	5.86
22 11 19 00-0487	EA			2-1/2" IPS, Chrome Plate Plastic Escutcheon.....	26.71	6.30
22 11 19 00-0488	EA			3" IPS, Chrome Plate Plastic Escutcheon.....	27.73	6.59
22 11 19 00-0489	EA			4" IPS, Chrome Plate Plastic Escutcheon.....	29.76	7.33
22 11 19 00-0490				Stainless Steel Escutcheons (22 11 19 00-0450)		
22 11 19 00-0491				Shallow Stainless Steel Escutcheons (22 11 19 00-0490)		
22 11 19 00-0492	EA			3/8" IPS, Shallow Stainless Steel Escutcheon.....	19.86	3.68
22 11 19 00-0493	EA			1/2" IPS, Shallow Stainless Steel Escutcheon.....	19.86	3.68
22 11 19 00-0494	EA			3/4" IPS, Shallow Stainless Steel Escutcheon.....	27.54	4.12
22 11 19 00-0495				Chrome Plated Steel Escutcheons (22 11 19 00-0450)		
22 11 19 00-0496				Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0495)		
22 11 19 00-0497	EA			1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.15	3.66
22 11 19 00-0498	EA			3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.88	4.10
22 11 19 00-0499	EA			1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	9.76	4.40
22 11 19 00-0500	EA			1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	10.49	4.84
22 11 19 00-0501	EA			1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	11.23	5.13
22 11 19 00-0502	EA			2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	12.93	5.86
22 11 19 00-0503	EA			2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	19.14	6.30
22 11 19 00-0504	EA			3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	20.33	6.59
22 11 19 00-0505	EA			3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	24.88	7.03
22 11 19 00-0506	EA			4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	22.19	7.33
22 11 19 00-0507	EA			5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	28.43	8.06
22 11 19 00-0508	EA			6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	33.08	8.79
22 11 19 00-0509				Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0495)		
22 11 19 00-0510	EA			3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.74	3.66
22 11 19 00-0511	EA			1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.74	3.66
22 11 19 00-0512	EA			3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	13.64	4.10
22 11 19 00-0513	EA			1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	13.91	4.40
22 11 19 00-0514	EA			1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	16.29	4.84
22 11 19 00-0515	EA			1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	17.26	5.13
22 11 19 00-0516	EA			2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	20.43	5.86
22 11 19 00-0517	EA			2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	23.44	6.30
22 11 19 00-0518	EA			3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	28.50	6.59
22 11 19 00-0519	EA			3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	34.87	7.03
22 11 19 00-0520	EA			4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	35.43	7.33
22 11 19 00-0521	EA			5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	57.96	8.06
22 11 19 00-0522	EA			6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	60.56	8.79
22 11 19 00-0523				Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0495)		
22 11 19 00-0524	EA			3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.93	4.12
22 11 19 00-0525	EA			1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.79	4.12
22 11 19 00-0526	EA			3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.51	4.12
22 11 19 00-0527	EA			1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.54	4.41
22 11 19 00-0528	EA			1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	11.44	4.86
22 11 19 00-0529	EA			1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	12.59	5.15
22 11 19 00-0530				Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0495)		
22 11 19 00-0531	EA			3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.98	3.68



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0532	EA		1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.98	3.68
22 11 19 00-0533	EA		3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.11	3.68
22 11 19 00-0534	EA		1" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.73	4.41
22 11 19 00-0535	EA		1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	10.53	4.86
22 11 19 00-0536	EA		1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	11.66	5.15
22 11 19 00-0537	EA		2" IPS, Shallow Chrome Plated Steel Escutcheon.....	13.22	5.88
22 11 19 00-0538 Keyed, Recessed Valve Boxes (22 11 19)					
22 11 19 00-0539	EA		8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box.....	319.93	43.96
22 11 19 00-0540	EA		8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box.....	353.07	43.96
22 11 19 00-0541	EA		8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box.....	402.79	43.96
22 11 19 00-0542	EA		12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box.....	398.95	58.62
22 11 19 00-0543	EA		12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box.....	448.67	58.62
22 11 19 00-0544	EA		12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box.....	463.59	58.62
22 11 19 00-0545	EA		8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	372.96	43.96
22 11 19 00-0546	EA		8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	445.88	43.96
22 11 19 00-0547	EA		8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	510.51	43.96
22 11 19 00-0548	EA		12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	491.76	58.62
22 11 19 00-0549	EA		12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	556.40	58.62
22 11 19 00-0550	EA		12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	581.26	58.62
22 11 23 Domestic Water Pumps (22 11)					
22 11 23 13 Domestic Water Packaged Booster Pumps (22 11 23)					
Note: Includes motor starter and controls.					
22 11 23 13-0001 Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)					
22 11 23 13-0002	EA		1 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	13,606.44	433.56
22 11 23 13-0003	EA		1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	14,170.23	582.60
22 11 23 13-0004	EA		2 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	14,829.59	731.63
22 11 23 13-0005	EA		3 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	15,441.16	880.66
22 11 23 13-0006	EA		5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	17,104.24	1,029.70
22 11 23 13-0007	EA		7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	19,006.31	1,178.74
22 11 23 13-0008	EA		10 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	20,334.82	1,327.78
22 11 23 13-0009 Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)					
22 11 23 13-0010	EA		100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	36,743.73	1,753.86
22 11 23 13-0011	EA		200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	44,208.68	1,863.47
22 11 23 13-0012	EA		300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	51,704.09	1,973.09
22 11 23 13-0013 Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)					
22 11 23 13-0014	EA		200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	48,283.28	1,863.47
22 11 23 13-0015	EA		300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	60,048.68	1,973.09
22 11 23 13-0016	EA		500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	74,586.65	2,192.32
22 11 23 13-0017	EA		750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	94,422.20	2,411.55
22 11 23 13-0018	EA		1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	114,257.76	2,630.78
22 11 23 13-0019	EA		1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	133,087.62	2,959.63
22 11 23 13-0020	EA		2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	151,917.48	3,288.48
22 11 23 13-0021	EA		3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	170,747.34	3,617.33
22 11 23 13-0022	EA		5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	189,851.25	4,055.79
22 11 23 13-0023 Variable Speed Duplex Domestic Water Pressure Booster Skid (22 11 23 13)					
Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.					
22 11 23 13-0024	EA		40 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-1).....	41,030.47	1,835.48
22 11 23 13-0025	EA		40 GPM At 80 To 120 PSI, 80 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-2).....	42,901.20	1,835.48
22 11 23 13-0026	EA		80 GPM At 80 PSI, 120 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-3).....	45,574.26	1,835.48
22 11 23 13-0027	EA		80 GPM At 130 To 150 PSI, 120 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-4).....	49,427.45	1,835.48
22 11 23 13-0028	EA		160 GPM At 40 To 50 PSI, 200 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-5).....	46,679.64	1,950.20
22 11 23 13-0029	EA		160 GPM At 60 To 80 PSI, 200 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-6).....	50,043.30	1,950.20
22 11 23 13-0030	EA		160 GPM At 90 To 110 PSI, 200 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-7).....	54,611.47	1,950.20
22 11 23 13-0031	EA		160 To 200 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-8).....	58,324.51	1,950.20
22 11 23 13-0032	EA		240 To 280 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-9).....	50,998.36	2,064.92
22 11 23 13-0033	EA		280 To 320 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-10).....	54,319.37	2,064.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0034 EA 240 To 320 GPM At 90 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-11).....	61,745.44	2,064.92
22 11 23 13-0035 EA 240 To 320 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-12).....	74,208.88	2,064.92
22 11 23 13-0036 EA 360 To 400 GPM At 40 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-13).....	53,852.20	2,064.92
22 11 23 13-0037 EA 360 To 400 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-14).....	60,626.25	2,064.92
22 11 23 13-0038 EA 360 To 400 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-15).....	75,537.29	2,064.92
22 11 23 13-0039 EA 360 To 400 GPM At 120 To 140 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-16).....	75,106.67	2,064.92
22 11 23 13-0040 EA 440 To 480 GPM At 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-17).....	89,561.48	2,294.35
22 11 23 13-0041 EA 440 To 480 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-18).....	61,632.48	2,294.35
22 11 23 13-0042 EA 440 To 480 GPM At 60 To 90 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-19).....	75,211.05	2,294.35
22 11 23 13-0043 EA 440 To 480 GPM At 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-20).....	74,782.47	2,294.35
22 11 23 13-0044 EA 440 To 600 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-21).....	90,227.72	2,294.35
22 11 23 13-0045 EA 440 To 600 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-22).....	109,119.91	2,294.35
22 11 23 13-0046 EA 60 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-1).....	51,820.20	1,835.48
22 11 23 13-0047 Variable Speed Triplex Domestic Water Pressure Booster Skid ^(22 11 23 13) Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		
22 11 23 13-0048 EA 60 GPM At 80 To 130 PSI, 120 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-2).....	51,820.20	1,835.48
22 11 23 13-0049 EA 120 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-3).....	57,950.37	1,835.48
22 11 23 13-0050 EA 60 GPM At 140 To 150 PSI, 120 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-4).....	63,239.61	1,835.48
22 11 23 13-0051 EA 180 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-5).....	58,237.17	1,950.20
22 11 23 13-0052 EA 180 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-6).....	63,489.85	1,950.20
22 11 23 13-0053 EA 240 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-7).....	59,464.01	1,950.20
22 11 23 13-0054 EA 240 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-8).....	63,979.37	1,950.20
22 11 23 13-0055 EA 240 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-9).....	70,188.75	1,950.20
22 11 23 13-0056 EA 240 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-10).....	75,335.81	1,950.20
22 11 23 13-0057 EA 300 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-11).....	60,047.36	2,064.92
22 11 23 13-0058 EA 300 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-12).....	64,562.71	2,064.92
22 11 23 13-0059 EA 300 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-13).....	70,770.06	2,064.92
22 11 23 13-0060 EA 300 GPM At 110 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-14).....	75,917.12	2,064.92
22 11 23 13-0061 EA 360 GPM At 40 To 60 PSI, 420 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-15).....	65,125.36	2,064.92
22 11 23 13-0062 EA 360 GPM At 70 To 80 PSI, 420 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-16).....	69,461.97	2,064.92
22 11 23 13-0063 EA 360 GPM At 90 To 130 PSI, 420 GPM At 80 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-17).....	80,176.55	2,064.92
22 11 23 13-0064 EA 360 GPM At 140 To 150 PSI, 420 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-18).....	97,661.12	2,064.92
22 11 23 13-0065 EA 480 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-19).....	66,584.55	2,294.35
22 11 23 13-0066 EA 480 GPM At 50 To 70 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-20).....	70,923.19	2,294.35
22 11 23 13-0067 EA 480 GPM At 80 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-21).....	81,637.77	2,294.35
22 11 23 13-0068 EA 480 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-22).....	99,120.31	2,294.35
22 11 23 13-0069 EA 540 GPM At 40 PSI, 600 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-23).....	70,220.40	2,294.35
22 11 23 13-0070 EA 540 GPM At 50 To 90 PSI, 600 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-24).....	79,957.97	2,294.35
22 11 23 13-0071 EA 540 GPM At 100 To 110 PSI, 600 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-25).....	101,110.89	2,294.35
22 11 23 13-0072 EA 540 GPM At 120 To 130 PSI, 600 GPM At 120 To 130 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-26).....	103,160.37	2,294.35



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0073	EA		540 GPM At 140 To 150 PSI, 600 GPM At 140 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-27)	127,715.54	2,294.35
22 11 23 13-0074	EA		660 GPM At 40 To 50 PSI, 720 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-28)	79,604.09	2,753.23
22 11 23 13-0075	EA		660 GPM At 60 To 90 PSI, 720,780,840,900 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-29)	95,652.60	2,753.23
22 11 23 13-0076	EA		660, 720, 780 GPM At 100 PSI, 840 To 900 GPM At 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-30)	101,738.08	2,753.23
22 11 23 13-0077	EA		660, 720, 780, 840, 900 GPM At 110 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-31)	122,612.72	2,753.23
22 11 23 13-0078	EA		660, 720, 780, 840, 900 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-32)	151,823.41	2,753.23

22 11 23 23 Domestic-Water In-Line Pumps (22 11 23)

22 11 23 23-0001 Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0002	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B)	1,341.78	243.87
22 11 23 23-0003	EA		1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B)	1,377.63	243.87
22 11 23 23-0004	EA		1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B)	1,441.92	248.62
22 11 23 23-0005	EA		1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B)	1,589.38	258.78
22 11 23 23-0006	EA		1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B)	2,853.00	268.38
22 11 23 23-0007	EA		1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB)	3,043.75	268.38
22 11 23 23-0008	EA		1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB)	4,551.41	295.49
22 11 23 23-0009	EA		1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB)	4,745.85	324.63
22 11 23 23-0010	EA		1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB)	5,746.59	357.16
22 11 23 23-0011	EA		1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S)	5,872.83	393.08
22 11 23 23-0012	EA		3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S)	6,422.48	431.71
22 11 23 23-0013	EA		1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S)	9,206.95	475.09
22 11 23 23-0014	EA		1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S)	10,607.06	498.13

22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0016	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30)	1,397.72	243.87
22 11 23 23-0017	EA		1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36)	2,341.78	243.87
22 11 23 23-0018	EA		1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	2,351.57	248.62
22 11 23 23-0019	EA		1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	2,392.25	254.04
22 11 23 23-0020	EA		1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50)	2,401.71	258.78
22 11 23 23-0021	EA		1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75)	2,446.83	268.38
22 11 23 23-0022	EA		1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2)	2,991.63	295.49
22 11 23 23-0023	EA		1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30)	3,860.40	357.16
22 11 23 23-0024	EA		1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S)	4,066.69	393.08
22 11 23 23-0025	EA		3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S)	4,747.41	431.71
22 11 23 23-0026	EA		1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S)	6,409.71	475.09
22 11 23 23-0027	EA		1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S)	7,495.29	498.13
22 11 23 23-0028	EA		2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	6,726.98	523.21
22 11 23 23-0029	EA		3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	7,231.04	575.12
22 11 23 23-0030	EA		5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	7,944.24	609.95
22 11 23 23-0031	EA		7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	10,067.88	677.72
22 11 23 23-0032	EA		10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	10,676.62	813.41
22 11 23 23-0033	EA		15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	13,621.37	949.22

22 12 Facility Potable-Water Storage Tanks (22 10)

22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)

22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)

22 12 19 00-0002	EA		5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank	38,729.52	9,345.31
22 12 19 00-0003	EA		10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank	43,833.77	9,345.31
22 12 19 00-0004	EA		20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank	78,751.73	14,421.81
22 12 19 00-0005	EA		35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank	101,656.93	18,690.63

22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)

22 12 19 00-0007	EA		5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank	46,291.37	9,345.31
22 12 19 00-0008	EA		10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank	64,061.70	9,345.31
22 12 19 00-0009	EA		20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank	95,559.29	14,421.81
22 12 19 00-0010	EA		35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank	137,196.62	18,690.63

22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)

22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)

22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)

22 12 23 13-0002	EA		80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A)	2,839.59	541.95
22 12 23 13-0003	EA		119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M)	3,519.81	677.43
22 12 23 13-0004	EA		140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A)	6,333.45	745.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 13-0005 EA 200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	7,000.48	812.92
22 12 23 13-0006 EA 250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	13,668.85	880.66
22 12 23 13-0007 EA 350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	11,839.20	948.41
22 12 23 13-0008 EA 400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	20,125.58	1,016.15
22 12 23 13-0009 EA 500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	18,594.00	1,083.89
22 12 23 13-0010 EA 750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	20,191.26	1,151.64
22 12 23 13-0011 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	24,008.31	1,219.38
22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)		
22 12 23 13-0013 EA 80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	2,455.25	541.95
22 12 23 13-0014 EA 120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	4,602.32	677.43
22 12 23 13-0015 EA 140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A).....	5,722.20	745.18
22 12 23 13-0016 EA 200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	7,038.31	812.92
22 12 23 13-0017 EA 200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A).....	6,017.08	812.92
22 12 23 13-0018 EA 250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A).....	9,184.17	880.66
22 12 23 13-0019 EA 325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A).....	9,938.24	948.41
22 12 23 13-0020 EA 350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	9,474.31	948.41
22 12 23 13-0021 EA 350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A).....	8,671.78	948.41
22 12 23 13-0022 EA 400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A).....	11,774.80	1,016.15
22 12 23 13-0023 EA 500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A).....	12,767.51	1,083.89
22 12 23 13-0024 EA 750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A).....	14,788.57	1,151.64
22 12 23 13-0025 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A).....	27,444.63	1,219.38
22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)		
22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)		
Note: Excludes excavation and backfill.		
22 12 23 26-0002 EA 100 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	795.28	304.85
For Saddle Assembly, Add	878.69	
22 12 23 26-0003 EA 150 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	931.24	355.66
For Saddle Assembly, Add	878.69	
22 12 23 26-0004 EA 200 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,101.31	406.46
For Saddle Assembly, Add	994.66	
22 12 23 26-0005 EA 300 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,332.77	457.27
For Saddle Assembly, Add	1,447.17	
22 12 23 26-0006 EA 335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,589.25	508.08
For Two Tie Down Bands, Add	511.48	
22 12 23 26-0007 EA 535 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,979.85	630.63
For Two Tie Down Bands, Add	543.31	
22 12 23 26-0008 EA 1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	2,932.40	735.73
For Three Tie Down Bands, Add	917.30	
22 12 23 26-0009 EA 1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	4,202.25	840.84
For Three Tie Down Bands, Add	924.13	
22 12 23 26-0010 EA 1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	5,231.49	945.94
For Four Tie Down Bands, Add	1,250.36	
22 12 23 26-0011 EA 2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	6,120.80	1,051.05
For Four Tie Down Bands, Add	1,714.24	
22 12 23 26-0012 EA 2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	8,704.36	1,156.15
For Four Tie Down Bands, Add	2,223.60	
22 12 23 26-0013 EA 3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	10,072.41	1,261.25
For Four Tie Down Bands, Add	2,396.42	
22 12 23 26-0014 EA 4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	14,451.09	1,681.67
For Four Tie Down Bands, Add	2,696.58	
22 12 23 26-0015 EA 5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	18,630.35	1,681.67
For Five Tie Down Bands, Add	4,200.69	
22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)		
22 12 23 26-0017 EA 100 Gallon Vertical Non-Pressurized Polyethylene Tank.....	885.29	406.46
22 12 23 26-0018 EA 160 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,053.32	431.87
22 12 23 26-0019 EA 210 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,153.13	457.27
22 12 23 26-0020 EA 300 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,386.87	508.08
22 12 23 26-0021 EA 405 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,588.30	609.69
22 12 23 26-0022 EA 500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,873.87	711.31
22 12 23 26-0023 EA 800 Gallon Vertical Non-Pressurized Polyethylene Tank.....	2,494.53	840.84
22 12 23 26-0024 EA 1,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	3,225.06	1,051.05
22 12 23 26-0025 EA 2,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	4,314.85	1,261.25
22 12 23 26-0026 EA 3,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	5,618.39	1,471.47
22 12 23 26-0027 EA 4,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	8,202.15	1,681.67
22 12 23 26-0028 EA 5,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	11,054.24	1,891.88
22 12 23 26-0029 EA 6,250 Gallon Vertical Non-Pressurized Polyethylene Tank.....	12,526.05	2,102.09
22 12 23 26-0030 EA 7,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	13,802.31	2,312.30
22 12 23 26-0031 EA 8,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	15,883.52	2,522.51
22 12 23 26-0032 EA 9,150 Gallon Vertical Non-Pressurized Polyethylene Tank.....	17,926.10	2,732.72

22	Plumbing
22 10	Plumbing Piping
22 12	Facility Potable-Water Storage Tanks



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 26-0033 EA 10,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	22,128.88	2,942.92
22 12 23 26-0034 EA 12,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	26,600.58	3,363.34

22 13 Facility Sanitary Sewerage ^(22 10)

22 13 13 Facility Sanitary Sewers ^(22 13)

22 13 13 00-0001 Fixture Rough-In ^(22 13 13)

Note: Excludes fixture. Not for use when individual component details are available, on remodeling work where partial pipe and fittings are installed or on residential projects. For use on commercial restrooms with multiple toilets, urinals and lavatories. Includes waste and vent pipe and fittings and domestic water supply pipe and fittings. Waste piping is included from fixture outlet tee to floor, vent piping is included from outlet tee within the wall to the ceiling and domestic water supply from ceiling to fixture and stub out with caps. Based on vertical floor to floor of 12'. Use detailed tasks (i.e. individual pipe and fittings, insulation, hangers, etc.) instead of rough-in assembly where possible. See CSI section 22 07 19 00-0000 for insulation, 22 11 16 00-0368 for copper pipe and fittings, 22 13 16 00-0000 for PVC or cast iron sanitary waste and vent pipe and fittings, 23 05 29 00-0000 for hangers.

22 13 13 00-0002 Single Fixture Rough-In, Cast Iron Waste And Vent Pipe ^(22 13 13 00-0001)

Note: Single fixtures have one fixture to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0003 EA Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,378.01	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0004 EA Wall Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,857.27	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0005 EA Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,248.99	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0006 EA Wall Mounted Urinal, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	815.04	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0007 EA Wall Mounted Lavatory, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	961.14	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0008 EA Countertop Kitchen Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,218.14	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0009 EA Bathtub, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,302.70	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0010 EA Free Standing Water Cooler, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	786.11	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0011 EA Floor Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,248.99	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0012 EA Wall Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,280.86	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0013 EA Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,213.09	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0014 EA Bidet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,378.01	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0015 EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	2,162.23	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0016 EA Bathtub/Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,336.61	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		

22 13 13 00-0017 Double Fixture Rough-In, Cast Iron Waste And Vent Pipe ^(22 13 13 00-0001)

Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0018 EA Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,803.40	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0019 EA Wall Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	2,489.06	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0020 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,556.30	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0021 EA Wall Mounted Urinal, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	981.00	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0022 EA Wall Mounted Lavatory, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,306.58	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0023 EA Countertop Kitchen Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,386.08	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0024 EA Free Standing Water Cooler, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	925.11	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0025 EA Floor Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,569.82	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0026 EA Wall Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,353.16	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0027 EA Shower, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,319.33	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.		
22 13 13 00-0028 EA Bidet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,803.40	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucets.		



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0029	Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe <small>(22 13 13 00-0001)</small>	
<small>Note: Gang fixtures include multiple fixtures to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.</small>		
22 13 13 00-0030 EA	Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	901.07
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.</small>		
22 13 13 00-0031 EA	Wall Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,244.52
<small>Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.</small>		
22 13 13 00-0032 EA	Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	778.81
<small>Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture.</small>		
22 13 13 00-0033 EA	Wall Mounted Urinal, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	491.18
<small>Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.</small>		
22 13 13 00-0034 EA	Wall Mounted Lavatory, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	653.31
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.</small>		
22 13 13 00-0035 EA	Countertop Kitchen Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	693.02
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0036 EA	Free Standing Water Cooler, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	496.42
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.</small>		
22 13 13 00-0037 EA	Rough-in Service Sink, Floor Mounted, Gang Mounted Fixture Including Cast Iron Waste Pipe And Vent And Copper Domestic Supply, Not Including Fixture Or Faucet	784.24
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0038 EA	Wall Mounted Service Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	676.57
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.</small>		
22 13 13 00-0039 EA	Shower, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	660.31
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.</small>		
22 13 13 00-0040 EA	Bidet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	891.56
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0041	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe <small>(22 13 13 00-0001)</small>	
<small>Note: Single fixtures have one fixture to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.</small>		
22 13 13 00-0042 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Water Closet	713.02
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.</small>		
22 13 13 00-0043 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Water Closet.....	758.40
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.</small>		
22 13 13 00-0044 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Tank Type, Floor Mounted, Water Closet	682.02
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.</small>		
22 13 13 00-0045 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Urinal	405.91
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.</small>		
22 13 13 00-0046 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Lavatory.....	475.27
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.</small>		
22 13 13 00-0047 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Countertop, Kitchen Sink.....	653.10
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0048 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Bathtub.....	656.09
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0049 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Free Standing, Water Cooler.....	403.33
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.</small>		
22 13 13 00-0050 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Service Sink	682.02
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0051 EA	Wall Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	728.46
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.</small>		
22 13 13 00-0052 EA	Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	669.04
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.</small>		
22 13 13 00-0053 EA	Bidet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	712.86
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0054 EA	Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	1,098.23
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.</small>		
22 13 13 00-0055 EA	Bathtub/Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	685.72
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.</small>		
22 13 13 00-0056	Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe <small>(22 13 13 00-0001)</small>	
<small>Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.</small>		
22 13 13 00-0057 EA	Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	857.58
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0058 EA Wall Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....990.32 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	990.32	
22 13 13 00-0059 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....746.65 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	746.65	
22 13 13 00-0060 EA Wall Mounted Urinal, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....445.57 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	445.57	
22 13 13 00-0061 EA Wall Mounted Lavatory, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....665.50 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures, carrier and faucets.	665.50	
22 13 13 00-0062 EA Countertop Kitchen Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....693.24 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures and faucets.	693.24	
22 13 13 00-0063 EA Free Standing Water Cooler, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....436.55 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	436.55	
22 13 13 00-0064 EA Floor Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....758.70 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	758.70	
22 13 13 00-0065 EA Wall Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....745.74 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	745.74	
22 13 13 00-0066 EA Shower, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....715.50 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	715.50	
22 13 13 00-0067 EA Bidet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....857.58 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	857.58	
22 13 13 00-0068 Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ^(22 13 13 00-0007) Note: Gang fixtures include multiple fixtures to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0069 EA Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....428.24 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	428.24	
22 13 13 00-0070 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....494.51 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	494.51	
22 13 13 00-0071 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....373.72 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	373.72	
22 13 13 00-0072 EA Wall Mounted Urinal, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....222.86 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	222.86	
22 13 13 00-0073 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....332.71 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	332.71	
22 13 13 00-0074 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....346.29 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	346.29	
22 13 13 00-0075 EA Free Standing Water Cooler, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....218.26 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	218.26	
22 13 13 00-0076 EA Floor Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....379.23 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	379.23	
22 13 13 00-0077 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....372.91 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	372.91	
22 13 13 00-0078 EA Shower, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....358.33 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	358.33	
22 13 13 00-0079 EA Bidet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....419.26 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	419.26	
22 13 16 Sanitary Waste and Vent Piping ^(22 13)		
22 13 16 00-0001 Cast Iron Soil Pipe Assemblies ^(22 13 16)		
22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies ^(22 13 16 00-0001) Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.		
22 13 16 00-0003 LF 2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....44.92 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	44.92	8.54
<i>For Work In Restricted Working Space, Add</i>	6.26	
22 13 16 00-0004 LF 3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....64.33 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	64.33	12.87
<i>For Work In Restricted Working Space, Add</i>	8.49	
22 13 16 00-0005 LF 4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....83.49 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	83.49	16.39
<i>For Work In Restricted Working Space, Add</i>	10.92	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0006	LF		5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	96.24	18.95
			<i>For Work In Restricted Working Space, Add</i>	10.67	
22 13 16 00-0007	LF		6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	113.38	20.65
			<i>For Work In Restricted Working Space, Add</i>	11.84	
22 13 16 00-0008	LF		8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	181.49	29.63
			<i>For Work In Restricted Working Space, Add</i>	16.78	
22 13 16 00-0009	LF		10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	269.28	29.63
			<i>For Work In Restricted Working Space, Add</i>	18.99	
22 13 16 00-0010			Aboveground No Hub Cast Iron Soil Pipe Assemblies (22 13 16 00-0001) Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
22 13 16 00-0011	LF		1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	36.93	8.13
			<i>For Work In Restricted Working Space, Add</i>	7.14	
22 13 16 00-0012	LF		2" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	39.17	8.67
			<i>For Work In Restricted Working Space, Add</i>	7.67	
22 13 16 00-0013	LF		3" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	49.73	12.60
			<i>For Work In Restricted Working Space, Add</i>	9.41	
22 13 16 00-0014	LF		4" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	59.77	16.39
			<i>For Work In Restricted Working Space, Add</i>	11.25	
22 13 16 00-0015	LF		5" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	75.85	18.59
			<i>For Work In Restricted Working Space, Add</i>	12.62	
22 13 16 00-0016	LF		6" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	85.85	20.29
			<i>For Work In Restricted Working Space, Add</i>	13.75	
22 13 16 00-0017	LF		8" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	134.05	29.38
			<i>For Work In Restricted Working Space, Add</i>	19.12	
22 13 16 00-0018	LF		10" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available.	186.95	33.38
			<i>For Work In Restricted Working Space, Add</i>	22.22	
22 13 16 00-0019			Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020			Bell And Spigot Cast Iron Pipe (22 13 16 00-0019) Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021	LF		2" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	32.16 8.09 0.65 3.87	8.54
22 13 16 00-0022	LF		3" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.95 11.59 0.97 5.81	12.87
22 13 16 00-0023	LF		4" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.52 15.07 1.23 7.39	16.39
22 13 16 00-0024	LF		5" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.00 21.27 1.42 8.51	18.95
22 13 16 00-0025	LF		6" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.60 25.91 1.55 9.28	20.65
22 13 16 00-0026	LF		8" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.38 40.29 2.22 13.34	29.63

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0027 LF 10" Bell And Spigot Cast Iron Pipe	209.72	33.38
For Extra Heavy Pipe, Add	67.08	
For Above Ground Cast Iron Pipe Installation, Add	2.50	
For Work In Restricted Working Space, Add	15.00	
22 13 16 00-0028 LF 12" Bell And Spigot Cast Iron Pipe	298.68	44.50
For Extra Heavy Pipe, Add	97.44	
For Above Ground Cast Iron Pipe Installation, Add	3.33	
For Work In Restricted Working Space, Add	20.00	
22 13 16 00-0029 LF 15" Bell And Spigot Cast Iron Pipe	419.11	53.38
For Extra Heavy Pipe, Add	142.42	
For Above Ground Cast Iron Pipe Installation, Add	4.00	
For Work In Restricted Working Space, Add	24.01	
22 13 16 00-0030 Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)		
22 13 16 00-0031 Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)		
22 13 16 00-0032 EA 2" Bell And Spigot Cast Iron Long Sweep	119.72	38.88
For Extra Heavy Fittings, Add	21.51	
For Above Ground Cast Iron Pipe Installation, Add	2.91	
For Work In Restricted Working Space, Add	17.48	
22 13 16 00-0033 EA 3" Bell And Spigot Cast Iron Long Sweep	197.90	48.91
For Extra Heavy Fittings, Add	43.63	
For Above Ground Cast Iron Pipe Installation, Add	3.66	
For Work In Restricted Working Space, Add	21.97	
22 13 16 00-0034 EA 4" Bell And Spigot Cast Iron Long Sweep	263.64	65.03
For Extra Heavy Fittings, Add	58.16	
For Above Ground Cast Iron Pipe Installation, Add	4.87	
For Work In Restricted Working Space, Add	29.24	
22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep	399.98	80.18
For Extra Heavy Fittings, Add	97.93	
For Above Ground Cast Iron Pipe Installation, Add	6.01	
For Work In Restricted Working Space, Add	36.06	
22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep	780.30	104.27
For Extra Heavy Fittings, Add	218.41	
For Above Ground Cast Iron Pipe Installation, Add	7.81	
For Work In Restricted Working Space, Add	46.88	
22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep	1,063.93	128.27
For Extra Heavy Fittings, Add	305.06	
For Above Ground Cast Iron Pipe Installation, Add	9.62	
For Work In Restricted Working Space, Add	57.70	
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep	1,627.32	179.03
For Extra Heavy Fittings, Add	475.61	
For Above Ground Cast Iron Pipe Installation, Add	13.42	
For Work In Restricted Working Space, Add	80.53	
22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep	3,001.97	249.29
For Extra Heavy Fittings, Add	919.88	
For Above Ground Cast Iron Pipe Installation, Add	18.69	
For Work In Restricted Working Space, Add	112.13	
22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)		
22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep	103.49	38.88
For Extra Heavy Fittings, Add	15.83	
For Above Ground Cast Iron Pipe Installation, Add	2.91	
For Work In Restricted Working Space, Add	17.48	
22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep	170.68	48.91
For Extra Heavy Fittings, Add	34.11	
For Above Ground Cast Iron Pipe Installation, Add	3.66	
For Work In Restricted Working Space, Add	21.97	
22 13 16 00-0043 EA 4" Bell And Spigot Cast Iron Short Sweep	233.03	65.03
For Extra Heavy Fittings, Add	47.45	
For Above Ground Cast Iron Pipe Installation, Add	4.87	
For Work In Restricted Working Space, Add	29.24	
22 13 16 00-0044 EA 5" Bell And Spigot Cast Iron Short Sweep	336.55	68.16
For Extra Heavy Fittings, Add	82.04	
For Above Ground Cast Iron Pipe Installation, Add	5.11	
For Work In Restricted Working Space, Add	30.65	
22 13 16 00-0045 EA 6" Bell And Spigot Cast Iron Short Sweep	405.81	80.18
For Extra Heavy Fittings, Add	99.97	
For Above Ground Cast Iron Pipe Installation, Add	6.01	
For Work In Restricted Working Space, Add	36.06	
22 13 16 00-0046 EA 8" Bell And Spigot Cast Iron Short Sweep	662.96	104.27
For Extra Heavy Fittings, Add	177.34	
For Above Ground Cast Iron Pipe Installation, Add	7.81	
For Work In Restricted Working Space, Add	46.88	
22 13 16 00-0047 EA 10" Bell And Spigot Cast Iron Short Sweep	963.82	128.27
For Extra Heavy Fittings, Add	270.02	
For Above Ground Cast Iron Pipe Installation, Add	9.62	
For Work In Restricted Working Space, Add	57.70	
22 13 16 00-0048 EA 12" Bell And Spigot Cast Iron Short Sweep	1,589.99	179.03
For Extra Heavy Fittings, Add	462.55	
For Above Ground Cast Iron Pipe Installation, Add	13.42	
For Work In Restricted Working Space, Add	80.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)		
22 13 16 00-0050 EA 2" Bell And Spigot Cast Iron 1/4 Bend	94.26	38.75
<i>For Extra Heavy Fittings, Add</i>	12.64	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	2.91	
<i>For Work In Restricted Working Space, Add</i>	17.45	
22 13 16 00-0051 EA 3" Bell And Spigot Cast Iron 1/4 Bend	137.63	43.63
<i>For Extra Heavy Fittings, Add</i>	25.26	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.27	
<i>For Work In Restricted Working Space, Add</i>	19.64	
22 13 16 00-0052 EA 4" Bell And Spigot Cast Iron 1/4 Bend	195.46	58.12
<i>For Extra Heavy Fittings, Add</i>	37.92	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.36	
<i>For Work In Restricted Working Space, Add</i>	26.14	
22 13 16 00-0053 EA 5" Bell And Spigot Cast Iron 1/4 Bend	236.70	60.87
<i>For Extra Heavy Fittings, Add</i>	50.93	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.56	
<i>For Work In Restricted Working Space, Add</i>	27.36	
22 13 16 00-0054 EA 6" Bell And Spigot Cast Iron 1/4 Bend	284.66	72.89
<i>For Extra Heavy Fittings, Add</i>	61.35	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.47	
<i>For Work In Restricted Working Space, Add</i>	32.81	
22 13 16 00-0055 EA 8" Bell And Spigot Cast Iron 1/4 Bend	578.87	96.01
<i>For Extra Heavy Fittings, Add</i>	152.24	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.20	
<i>For Work In Restricted Working Space, Add</i>	43.17	
22 13 16 00-0056 EA 10" Bell And Spigot Cast Iron 1/4 Bend	847.64	116.51
<i>For Extra Heavy Fittings, Add</i>	235.54	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.73	
<i>For Work In Restricted Working Space, Add</i>	52.40	
22 13 16 00-0057 EA 12" Bell And Spigot Cast Iron 1/4 Bend	1,113.65	137.52
<i>For Extra Heavy Fittings, Add</i>	317.60	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.31	
<i>For Work In Restricted Working Space, Add</i>	61.87	
22 13 16 00-0058 EA 15" Bell And Spigot Cast Iron 1/4 Bend	2,813.26	216.91
<i>For Extra Heavy Fittings, Add</i>	870.84	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.26	
<i>For Work In Restricted Working Space, Add</i>	97.55	
22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0060 EA 2" Bell And Spigot Cast Iron 1/8 Bend	87.10	38.88
<i>For Extra Heavy Fittings, Add</i>	10.09	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	2.91	
<i>For Work In Restricted Working Space, Add</i>	17.48	
22 13 16 00-0061 EA 3" Bell And Spigot Cast Iron 1/8 Bend	132.73	48.91
<i>For Extra Heavy Fittings, Add</i>	20.83	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.66	
<i>For Work In Restricted Working Space, Add</i>	21.97	
22 13 16 00-0062 EA 4" Bell And Spigot Cast Iron 1/8 Bend	187.75	65.03
<i>For Extra Heavy Fittings, Add</i>	31.60	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.87	
<i>For Work In Restricted Working Space, Add</i>	29.24	
22 13 16 00-0063 EA 5" Bell And Spigot Cast Iron 1/8 Bend	228.00	76.18
<i>For Extra Heavy Fittings, Add</i>	39.84	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.71	
<i>For Work In Restricted Working Space, Add</i>	34.25	
22 13 16 00-0064 EA 6" Bell And Spigot Cast Iron 1/8 Bend	262.95	84.93
<i>For Extra Heavy Fittings, Add</i>	47.45	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.37	
<i>For Work In Restricted Working Space, Add</i>	38.22	
22 13 16 00-0065 EA 8" Bell And Spigot Cast Iron 1/8 Bend	511.63	115.01
<i>For Extra Heavy Fittings, Add</i>	118.71	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.62	
<i>For Work In Restricted Working Space, Add</i>	51.74	
22 13 16 00-0066 EA 10" Bell And Spigot Cast Iron 1/8 Bend	710.99	141.90
<i>For Extra Heavy Fittings, Add</i>	174.37	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.64	
<i>For Work In Restricted Working Space, Add</i>	63.84	
22 13 16 00-0067 EA 12" Bell And Spigot Cast Iron 1/8 Bend	1,137.87	184.02
<i>For Extra Heavy Fittings, Add</i>	301.71	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.79	
<i>For Work In Restricted Working Space, Add</i>	82.75	
22 13 16 00-0068 EA 15" Bell And Spigot Cast Iron 1/8 Bend	2,147.73	216.91
<i>For Extra Heavy Fittings, Add</i>	637.90	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.26	
<i>For Work In Restricted Working Space, Add</i>	97.55	
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)		
22 13 16 00-0070 EA 2" Bell And Spigot Cast Iron Wye	158.02	86.85
<i>For Extra Heavy Fittings, Add</i>	9.71	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.51	
<i>For Work In Restricted Working Space, Add</i>	39.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0071 EA 3" Bell And Spigot Cast Iron Wye	194.58	95.11
For Extra Heavy Fittings, Add	18.19	
For Above Ground Cast Iron Pipe Installation, Add	7.13	
For Work In Restricted Working Space, Add	42.79	
22 13 16 00-0072 EA 4" Bell And Spigot Cast Iron Wye	255.98	124.65
For Extra Heavy Fittings, Add	24.20	
For Above Ground Cast Iron Pipe Installation, Add	9.34	
For Work In Restricted Working Space, Add	56.05	
22 13 16 00-0073 EA 5" Bell And Spigot Cast Iron Wye	311.81	131.09
For Extra Heavy Fittings, Add	40.33	
For Above Ground Cast Iron Pipe Installation, Add	9.83	
For Work In Restricted Working Space, Add	58.98	
22 13 16 00-0074 EA 6" Bell And Spigot Cast Iron Wye	389.11	155.39
For Extra Heavy Fittings, Add	54.64	
For Above Ground Cast Iron Pipe Installation, Add	11.65	
For Work In Restricted Working Space, Add	69.90	
22 13 16 00-0075 EA 8" Bell And Spigot Cast Iron Wye	697.72	210.03
For Extra Heavy Fittings, Add	133.98	
For Above Ground Cast Iron Pipe Installation, Add	15.75	
For Work In Restricted Working Space, Add	94.47	
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye	964.79	238.28
For Extra Heavy Fittings, Add	212.66	
For Above Ground Cast Iron Pipe Installation, Add	17.86	
For Work In Restricted Working Space, Add	107.16	
22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye	1,412.34	290.05
For Extra Heavy Fittings, Add	342.12	
For Above Ground Cast Iron Pipe Installation, Add	21.74	
For Work In Restricted Working Space, Add	130.46	
22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye	2,161.67	325.43
For Extra Heavy Fittings, Add	585.83	
For Above Ground Cast Iron Pipe Installation, Add	24.39	
For Work In Restricted Working Space, Add	146.36	
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)		
22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye	235.91	90.77
For Extra Heavy Fittings, Add	34.92	
For Above Ground Cast Iron Pipe Installation, Add	6.81	
For Work In Restricted Working Space, Add	40.84	
22 13 16 00-0081 EA 4" x 2" Bell And Spigot Cast Iron Reducing Wye	287.65	112.19
For Extra Heavy Fittings, Add	41.78	
For Above Ground Cast Iron Pipe Installation, Add	8.41	
For Work In Restricted Working Space, Add	50.48	
22 13 16 00-0082 EA 4" x 3" Bell And Spigot Cast Iron Reducing Wye	317.88	115.03
For Extra Heavy Fittings, Add	50.87	
For Above Ground Cast Iron Pipe Installation, Add	8.63	
For Work In Restricted Working Space, Add	51.77	
22 13 16 00-0083 EA 6" x 2" Bell And Spigot Cast Iron Reducing Wye	450.86	139.23
For Extra Heavy Fittings, Add	84.77	
For Above Ground Cast Iron Pipe Installation, Add	10.43	
For Work In Restricted Working Space, Add	62.60	
22 13 16 00-0084 EA 6" x 3" Bell And Spigot Cast Iron Reducing Wye	462.32	141.78
For Extra Heavy Fittings, Add	87.40	
For Above Ground Cast Iron Pipe Installation, Add	10.63	
For Work In Restricted Working Space, Add	63.78	
22 13 16 00-0085 EA 6" x 4" Bell And Spigot Cast Iron Reducing Wye	484.57	151.26
For Extra Heavy Fittings, Add	90.22	
For Above Ground Cast Iron Pipe Installation, Add	11.34	
For Work In Restricted Working Space, Add	68.04	
22 13 16 00-0086 EA 8" x 2" Bell And Spigot Cast Iron Reducing Wye	702.45	168.90
For Extra Heavy Fittings, Add	157.23	
For Above Ground Cast Iron Pipe Installation, Add	12.66	
For Work In Restricted Working Space, Add	75.96	
22 13 16 00-0087 EA 8" x 3" Bell And Spigot Cast Iron Reducing Wye	733.23	172.15
For Extra Heavy Fittings, Add	166.32	
For Above Ground Cast Iron Pipe Installation, Add	12.90	
For Work In Restricted Working Space, Add	77.41	
22 13 16 00-0088 EA 8" x 4" Bell And Spigot Cast Iron Reducing Wye	751.85	180.28
For Extra Heavy Fittings, Add	168.54	
For Above Ground Cast Iron Pipe Installation, Add	13.52	
For Work In Restricted Working Space, Add	81.09	
22 13 16 00-0089 EA 8" x 6" Bell And Spigot Cast Iron Reducing Wye	885.47	200.53
For Extra Heavy Fittings, Add	204.67	
For Above Ground Cast Iron Pipe Installation, Add	15.04	
For Work In Restricted Working Space, Add	90.21	
22 13 16 00-0090 EA 10" x 3" Bell And Spigot Cast Iron Reducing Wye	1,078.14	187.90
For Extra Heavy Fittings, Add	278.74	
For Above Ground Cast Iron Pipe Installation, Add	14.09	
For Work In Restricted Working Space, Add	84.52	
22 13 16 00-0091 EA 10" x 4" Bell And Spigot Cast Iron Reducing Wye	1,121.71	196.16
For Extra Heavy Fittings, Add	289.64	
For Above Ground Cast Iron Pipe Installation, Add	14.71	
For Work In Restricted Working Space, Add	88.25	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0092	EA		10" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,227.67 315.88 16.26 97.55	216.91
22 13 16 00-0093	EA		10" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,610.14 442.84 17.24 103.46	230.04
22 13 16 00-0094	EA		12" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,655.70 458.79 17.24 103.46	230.04
22 13 16 00-0095	EA		12" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,725.52 473.12 18.69 112.13	249.29
22 13 16 00-0096	EA		12" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,019.06 569.40 19.61 117.66	261.66
22 13 16 00-0097	EA		12" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,443.13 713.72 20.20 121.18	269.42
22 13 16 00-0098	EA		15" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,995.58 1,265.15 19.04 114.26	254.04
22 13 16 00-0099	EA		15" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,172.30 1,316.01 20.61 123.68	274.91
22 13 16 00-0100	EA		15" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,259.23 1,340.23 21.50 129.00	286.79
22 13 16 00-0101	EA		15" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,359.10 1,370.11 22.23 133.35	296.55
22 13 16 00-0102	EA		15" x 12" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,471.53 1,400.38 23.52 141.13	313.80
22 13 16 00-0103			Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0104	EA		2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	169.90 13.87 6.51 39.08	86.85
22 13 16 00-0105	EA		3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	201.90 20.75 7.13 42.79	95.11
22 13 16 00-0106	EA		4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	268.72 28.66 9.34 56.05	124.65
22 13 16 00-0107	EA		5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	354.50 51.93 10.31 61.84	137.53
22 13 16 00-0108	EA		6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	443.59 65.76 12.79 76.71	170.58
22 13 16 00-0109	EA		8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	796.41 160.08 16.95 101.71	226.16
22 13 16 00-0110	EA		10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,142.31 244.23 22.23 133.35	296.55
22 13 16 00-0111	EA		12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,527.76 334.69 28.58 171.45	381.19

22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0030)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0113 EA 3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	180.60	90.77
For Extra Heavy Fittings, Add	15.56	
For Above Ground Cast Iron Pipe Installation, Add	6.81	
For Work In Restricted Working Space, Add	40.84	
22 13 16 00-0114 EA 4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	249.94	112.19
For Extra Heavy Fittings, Add	28.58	
For Above Ground Cast Iron Pipe Installation, Add	8.41	
For Work In Restricted Working Space, Add	50.48	
22 13 16 00-0115 EA 4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	268.11	115.03
For Extra Heavy Fittings, Add	33.45	
For Above Ground Cast Iron Pipe Installation, Add	8.63	
For Work In Restricted Working Space, Add	51.77	
22 13 16 00-0116 EA 6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	379.49	139.23
For Extra Heavy Fittings, Add	59.79	
For Above Ground Cast Iron Pipe Installation, Add	10.43	
For Work In Restricted Working Space, Add	62.60	
22 13 16 00-0117 EA 6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	394.56	141.78
For Extra Heavy Fittings, Add	63.68	
For Above Ground Cast Iron Pipe Installation, Add	10.63	
For Work In Restricted Working Space, Add	63.78	
22 13 16 00-0118 EA 6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	418.46	151.26
For Extra Heavy Fittings, Add	67.08	
For Above Ground Cast Iron Pipe Installation, Add	11.34	
For Work In Restricted Working Space, Add	68.04	
22 13 16 00-0119 EA 8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	569.89	168.90
For Extra Heavy Fittings, Add	110.84	
For Above Ground Cast Iron Pipe Installation, Add	12.66	
For Work In Restricted Working Space, Add	75.96	
22 13 16 00-0120 EA 8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	586.99	180.28
For Extra Heavy Fittings, Add	110.84	
For Above Ground Cast Iron Pipe Installation, Add	13.52	
For Work In Restricted Working Space, Add	81.09	
22 13 16 00-0121 EA 8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	735.45	200.53
For Extra Heavy Fittings, Add	152.16	
For Above Ground Cast Iron Pipe Installation, Add	15.04	
For Work In Restricted Working Space, Add	90.21	
22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		
22 13 16 00-0123 EA 2" Bell And Spigot Cast Iron Double Wye	265.31	103.92
For Extra Heavy Fittings, Add	38.35	
For Above Ground Cast Iron Pipe Installation, Add	7.79	
For Work In Restricted Working Space, Add	46.72	
22 13 16 00-0124 EA 3" Bell And Spigot Cast Iron Double Wye	380.32	131.01
For Extra Heavy Fittings, Add	64.39	
For Above Ground Cast Iron Pipe Installation, Add	9.82	
For Work In Restricted Working Space, Add	58.91	
22 13 16 00-0125 EA 4" Bell And Spigot Cast Iron Double Wye	512.63	165.70
For Extra Heavy Fittings, Add	92.44	
For Above Ground Cast Iron Pipe Installation, Add	12.43	
For Work In Restricted Working Space, Add	74.55	
22 13 16 00-0126 EA 6" Bell And Spigot Cast Iron Double Wye	943.86	238.73
For Extra Heavy Fittings, Add	205.07	
For Above Ground Cast Iron Pipe Installation, Add	17.90	
For Work In Restricted Working Space, Add	107.38	
22 13 16 00-0127 EA 8" Bell And Spigot Cast Iron Double Wye	1,851.76	283.91
For Extra Heavy Fittings, Add	499.16	
For Above Ground Cast Iron Pipe Installation, Add	21.28	
For Work In Restricted Working Space, Add	127.68	
22 13 16 00-0128 EA 10" Bell And Spigot Cast Iron Double Wye	2,441.06	317.67
For Extra Heavy Fittings, Add	687.68	
For Above Ground Cast Iron Pipe Installation, Add	23.81	
For Work In Restricted Working Space, Add	142.88	
22 13 16 00-0129 EA 12" Bell And Spigot Cast Iron Double Wye	1,728.18	381.19
For Extra Heavy Fittings, Add	404.83	
For Above Ground Cast Iron Pipe Installation, Add	28.58	
For Work In Restricted Working Space, Add	171.45	
22 13 16 00-0130 EA 15" Bell And Spigot Cast Iron Double Wye	4,723.96	400.07
For Extra Heavy Fittings, Add	1,443.34	
For Above Ground Cast Iron Pipe Installation, Add	30.01	
For Work In Restricted Working Space, Add	180.04	
22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Wye	248.93	122.89
For Extra Heavy Fittings, Add	22.63	
For Above Ground Cast Iron Pipe Installation, Add	9.21	
For Work In Restricted Working Space, Add	55.28	
22 13 16 00-0133 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Wye	288.80	141.17
For Extra Heavy Fittings, Add	26.99	
For Above Ground Cast Iron Pipe Installation, Add	10.59	
For Work In Restricted Working Space, Add	63.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0134 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Wye	311.44	148.08
<i>For Extra Heavy Fittings, Add</i>	31.27	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.11	
<i>For Work In Restricted Working Space, Add</i>	66.63	
22 13 16 00-0135 EA 6" x 2" Bell And Spigot Cast Iron Reducing Double Wye	381.57	165.60
<i>For Extra Heavy Fittings, Add</i>	46.67	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.41	
<i>For Work In Restricted Working Space, Add</i>	74.47	
22 13 16 00-0136 EA 6" x 3" Bell And Spigot Cast Iron Reducing Double Wye	403.73	171.91
<i>For Extra Heavy Fittings, Add</i>	51.11	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.89	
<i>For Work In Restricted Working Space, Add</i>	77.31	
22 13 16 00-0137 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Wye	462.35	187.47
<i>For Extra Heavy Fittings, Add</i>	63.46	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.05	
<i>For Work In Restricted Working Space, Add</i>	84.31	
22 13 16 00-0138 EA 8" x 4" Bell And Spigot Cast Iron Reducing Double Wye	730.50	218.78
<i>For Extra Heavy Fittings, Add</i>	140.91	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.40	
<i>For Work In Restricted Working Space, Add</i>	98.37	
22 13 16 00-0139 EA 8" x 6" Bell And Spigot Cast Iron Reducing Double Wye	800.25	258.91
<i>For Extra Heavy Fittings, Add</i>	144.20	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	19.41	
<i>For Work In Restricted Working Space, Add</i>	116.48	
22 13 16 00-0140 EA 10" x 4" Bell And Spigot Cast Iron Reducing Double Wye	778.43	234.03
<i>For Extra Heavy Fittings, Add</i>	149.63	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	17.55	
<i>For Work In Restricted Working Space, Add</i>	105.28	
22 13 16 00-0141 EA 10" x 6" Bell And Spigot Cast Iron Reducing Double Wye	907.71	274.91
<i>For Extra Heavy Fittings, Add</i>	173.40	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	20.61	
<i>For Work In Restricted Working Space, Add</i>	123.68	
22 13 16 00-0142 EA 10" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,109.90	299.67
<i>For Extra Heavy Fittings, Add</i>	231.21	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	22.47	
<i>For Work In Restricted Working Space, Add</i>	134.79	
22 13 16 00-0143 EA 12" x 6" Bell And Spigot Cast Iron Reducing Double Wye	1,133.78	306.55
<i>For Extra Heavy Fittings, Add</i>	235.95	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	22.98	
<i>For Work In Restricted Working Space, Add</i>	137.89	
22 13 16 00-0144 EA 12" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,436.45	333.55
<i>For Extra Heavy Fittings, Add</i>	327.73	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	25.00	
<i>For Work In Restricted Working Space, Add</i>	150.02	
22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0146 EA 2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	226.04	103.92
<i>For Extra Heavy Fittings, Add</i>	24.61	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.79	
<i>For Work In Restricted Working Space, Add</i>	46.72	
22 13 16 00-0147 EA 3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	304.17	139.01
<i>For Extra Heavy Fittings, Add</i>	33.51	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.42	
<i>For Work In Restricted Working Space, Add</i>	62.53	
22 13 16 00-0148 EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	395.27	173.83
<i>For Extra Heavy Fittings, Add</i>	47.15	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.03	
<i>For Work In Restricted Working Space, Add</i>	78.17	
22 13 16 00-0149 EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	817.67	266.80
<i>For Extra Heavy Fittings, Add</i>	146.17	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	20.00	
<i>For Work In Restricted Working Space, Add</i>	120.01	
22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0151 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	297.95	124.65
<i>For Extra Heavy Fittings, Add</i>	38.89	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.34	
<i>For Work In Restricted Working Space, Add</i>	56.05	
22 13 16 00-0152 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	351.71	141.17
<i>For Extra Heavy Fittings, Add</i>	49.00	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.59	
<i>For Work In Restricted Working Space, Add</i>	63.51	
22 13 16 00-0153 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	394.45	157.17
<i>For Extra Heavy Fittings, Add</i>	55.62	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.78	
<i>For Work In Restricted Working Space, Add</i>	70.67	
22 13 16 00-0154 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	744.25	199.01
<i>For Extra Heavy Fittings, Add</i>	156.05	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.92	
<i>For Work In Restricted Working Space, Add</i>	89.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0156 EA 2" Bell And Spigot Cast Iron Sanitary Tee	185.18	86.98
For Extra Heavy Fittings, Add	19.18	
For Above Ground Cast Iron Pipe Installation, Add	6.52	
For Work In Restricted Working Space, Add	39.12	
22 13 16 00-0157 EA 3" Bell And Spigot Cast Iron Sanitary Tee	209.52	95.11
For Extra Heavy Fittings, Add	23.42	
For Above Ground Cast Iron Pipe Installation, Add	7.13	
For Work In Restricted Working Space, Add	42.79	
22 13 16 00-0158 EA 4" Bell And Spigot Cast Iron Sanitary Tee	327.03	116.52
For Extra Heavy Fittings, Add	53.29	
For Above Ground Cast Iron Pipe Installation, Add	8.74	
For Work In Restricted Working Space, Add	52.43	
22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee	452.92	121.25
For Extra Heavy Fittings, Add	94.86	
For Above Ground Cast Iron Pipe Installation, Add	9.09	
For Work In Restricted Working Space, Add	54.56	
22 13 16 00-0160 EA 6" Bell And Spigot Cast Iron Sanitary Tee	543.32	145.43
For Extra Heavy Fittings, Add	113.84	
For Above Ground Cast Iron Pipe Installation, Add	10.90	
For Work In Restricted Working Space, Add	65.42	
22 13 16 00-0161 EA 8" Bell And Spigot Cast Iron Sanitary Tee	1,144.12	191.91
For Extra Heavy Fittings, Add	299.74	
For Above Ground Cast Iron Pipe Installation, Add	14.39	
For Work In Restricted Working Space, Add	86.32	
22 13 16 00-0162 EA 10" Bell And Spigot Cast Iron Sanitary Tee	1,707.31	234.03
For Extra Heavy Fittings, Add	474.73	
For Above Ground Cast Iron Pipe Installation, Add	17.55	
For Work In Restricted Working Space, Add	105.28	
22 13 16 00-0163 EA 12" Bell And Spigot Cast Iron Sanitary Tee	2,531.04	274.91
For Extra Heavy Fittings, Add	741.57	
For Above Ground Cast Iron Pipe Installation, Add	20.61	
For Work In Restricted Working Space, Add	123.68	
22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	241.10	90.77
For Extra Heavy Fittings, Add	36.74	
For Above Ground Cast Iron Pipe Installation, Add	6.81	
For Work In Restricted Working Space, Add	40.84	
22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	285.12	106.35
For Extra Heavy Fittings, Add	44.00	
For Above Ground Cast Iron Pipe Installation, Add	7.97	
For Work In Restricted Working Space, Add	47.82	
22 13 16 00-0167 EA 4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee	297.23	106.35
For Extra Heavy Fittings, Add	48.24	
For Above Ground Cast Iron Pipe Installation, Add	7.97	
For Work In Restricted Working Space, Add	47.82	
22 13 16 00-0168 EA 6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	434.71	139.23
For Extra Heavy Fittings, Add	79.12	
For Above Ground Cast Iron Pipe Installation, Add	10.43	
For Work In Restricted Working Space, Add	62.60	
22 13 16 00-0169 EA 6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee	451.94	141.78
For Extra Heavy Fittings, Add	83.77	
For Above Ground Cast Iron Pipe Installation, Add	10.63	
For Work In Restricted Working Space, Add	63.78	
22 13 16 00-0170 EA 6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee	489.76	151.26
For Extra Heavy Fittings, Add	92.04	
For Above Ground Cast Iron Pipe Installation, Add	11.34	
For Work In Restricted Working Space, Add	68.04	
22 13 16 00-0171 EA 8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee	820.47	180.28
For Extra Heavy Fittings, Add	192.56	
For Above Ground Cast Iron Pipe Installation, Add	13.52	
For Work In Restricted Working Space, Add	81.09	
22 13 16 00-0172 EA 8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee	1,024.46	200.53
For Extra Heavy Fittings, Add	253.31	
For Above Ground Cast Iron Pipe Installation, Add	15.04	
For Work In Restricted Working Space, Add	90.21	
22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)		
22 13 16 00-0174 EA 2" Bell And Spigot Cast Iron Vent Tee	162.29	86.85
For Extra Heavy Fittings, Add	11.20	
For Above Ground Cast Iron Pipe Installation, Add	6.51	
For Work In Restricted Working Space, Add	39.08	
22 13 16 00-0175 EA 3" Bell And Spigot Cast Iron Vent Tee	198.33	95.11
For Extra Heavy Fittings, Add	19.50	
For Above Ground Cast Iron Pipe Installation, Add	7.13	
For Work In Restricted Working Space, Add	42.79	
22 13 16 00-0176 EA 4" Bell And Spigot Cast Iron Vent Tee	262.32	124.65
For Extra Heavy Fittings, Add	26.42	
For Above Ground Cast Iron Pipe Installation, Add	9.34	
For Work In Restricted Working Space, Add	56.05	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0177 EA 5" Bell And Spigot Cast Iron Vent Tee..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	318.75 39.42 10.31 61.84	137.53
22 13 16 00-0178 EA 6" Bell And Spigot Cast Iron Vent Tee..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	400.80 50.79 12.79 76.71	170.58
22 13 16 00-0179 EA 8" Bell And Spigot Cast Iron Vent Tee..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	676.69 118.18 16.95 101.71	226.16
22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0181 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Tee..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.03 12.51 6.51 39.08	86.85
22 13 16 00-0182 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Tee..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	183.05 14.15 7.13 42.79	95.11
22 13 16 00-0183 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Tee..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.66 17.44 9.34 56.05	124.65
22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)		
22 13 16 00-0185 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Cross..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	168.40 13.34 6.51 39.08	86.85
22 13 16 00-0186 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Cross..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	187.54 15.72 7.13 42.79	95.11
22 13 16 00-0187 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Cross..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.96 21.40 9.34 56.05	124.65
22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)		
22 13 16 00-0189 EA 3" x 2" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.47 7.08 3.66 21.97	48.91
22 13 16 00-0190 EA 4" x 2" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.94 7.41 4.84 29.03	64.49
22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	124.98 9.63 4.87 29.24	65.03
22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.40 13.99 5.52 33.13	73.63
22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	156.82 15.72 5.60 33.57	74.60
22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	161.68 16.63 5.71 34.25	76.18
22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	205.41 30.70 5.88 35.31	78.48
22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	234.64 31.02 7.30 43.80	97.39
22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	240.81 31.85 7.49 44.94	99.89
22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	248.94 32.43 7.81 46.88	104.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer.....	308.11	117.02
For Extra Heavy Fittings, Add	46.42	
For Above Ground Cast Iron Pipe Installation, Add	8.77	
For Work In Restricted Working Space, Add	52.64	
22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer.....	324.75	122.90
For Extra Heavy Fittings, Add	49.15	
For Above Ground Cast Iron Pipe Installation, Add	9.22	
For Work In Restricted Working Space, Add	55.30	
22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer.....	345.45	128.27
For Extra Heavy Fittings, Add	53.59	
For Above Ground Cast Iron Pipe Installation, Add	9.62	
For Work In Restricted Working Space, Add	57.70	
22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer.....	424.92	139.02
For Extra Heavy Fittings, Add	75.79	
For Above Ground Cast Iron Pipe Installation, Add	10.42	
For Work In Restricted Working Space, Add	62.51	
22 13 16 00-0203 EA 12" x 6" Bell And Spigot Cast Iron Reducer.....	475.54	162.65
For Extra Heavy Fittings, Add	81.06	
For Above Ground Cast Iron Pipe Installation, Add	12.20	
For Work In Restricted Working Space, Add	73.18	
22 13 16 00-0204 EA 12" x 8" Bell And Spigot Cast Iron Reducer.....	516.28	185.28
For Extra Heavy Fittings, Add	83.46	
For Above Ground Cast Iron Pipe Installation, Add	13.89	
For Work In Restricted Working Space, Add	83.35	
22 13 16 00-0205 EA 12" x 10" Bell And Spigot Cast Iron Reducer.....	567.81	213.40
For Extra Heavy Fittings, Add	86.75	
For Above Ground Cast Iron Pipe Installation, Add	16.00	
For Work In Restricted Working Space, Add	95.99	
22 13 16 00-0206 EA 15" x 6" Bell And Spigot Cast Iron Reducer.....	728.19	213.40
For Extra Heavy Fittings, Add	142.88	
For Above Ground Cast Iron Pipe Installation, Add	16.00	
For Work In Restricted Working Space, Add	95.99	
22 13 16 00-0207 EA 15" x 8" Bell And Spigot Cast Iron Reducer.....	775.44	230.04
For Extra Heavy Fittings, Add	150.70	
For Above Ground Cast Iron Pipe Installation, Add	17.24	
For Work In Restricted Working Space, Add	103.46	
22 13 16 00-0208 EA 15" x 10" Bell And Spigot Cast Iron Reducer.....	808.09	242.53
For Extra Heavy Fittings, Add	155.54	
For Above Ground Cast Iron Pipe Installation, Add	18.18	
For Work In Restricted Working Space, Add	109.11	
22 13 16 00-0209 EA 15" x 12" Bell And Spigot Cast Iron Reducer.....	852.21	258.91
For Extra Heavy Fittings, Add	162.38	
For Above Ground Cast Iron Pipe Installation, Add	19.41	
For Work In Restricted Working Space, Add	116.48	
22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)		
22 13 16 00-0211 EA 2" Bell And Spigot Cast Iron P-Trap.....	92.87	38.88
For Extra Heavy Fittings, Add	12.11	
For Above Ground Cast Iron Pipe Installation, Add	2.91	
For Work In Restricted Working Space, Add	17.48	
22 13 16 00-0212 EA 3" Bell And Spigot Cast Iron P-Trap.....	123.57	48.91
For Extra Heavy Fittings, Add	17.62	
For Above Ground Cast Iron Pipe Installation, Add	3.66	
For Work In Restricted Working Space, Add	21.97	
22 13 16 00-0213 EA 4" Bell And Spigot Cast Iron P-Trap.....	168.00	65.03
For Extra Heavy Fittings, Add	24.69	
For Above Ground Cast Iron Pipe Installation, Add	4.87	
For Work In Restricted Working Space, Add	29.24	
22 13 16 00-0214 EA 5" Bell And Spigot Cast Iron P-Trap.....	253.36	68.16
For Extra Heavy Fittings, Add	52.92	
For Above Ground Cast Iron Pipe Installation, Add	5.11	
For Work In Restricted Working Space, Add	30.65	
22 13 16 00-0215 EA 6" Bell And Spigot Cast Iron P-Trap.....	337.95	80.18
For Extra Heavy Fittings, Add	76.22	
For Above Ground Cast Iron Pipe Installation, Add	6.01	
For Work In Restricted Working Space, Add	36.06	
22 13 16 00-0216 EA 8" Bell And Spigot Cast Iron P-Trap.....	737.57	104.27
For Extra Heavy Fittings, Add	203.46	
For Above Ground Cast Iron Pipe Installation, Add	7.81	
For Work In Restricted Working Space, Add	46.88	
22 13 16 00-0217 EA 10" Bell And Spigot Cast Iron P-Trap.....	820.36	128.27
For Extra Heavy Fittings, Add	219.81	
For Above Ground Cast Iron Pipe Installation, Add	9.62	
For Work In Restricted Working Space, Add	57.70	
22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)		
22 13 16 00-0219 EA 2" Bell And Spigot Cast Iron Deep Seal P-Trap.....	106.02	38.88
For Extra Heavy Fittings, Add	16.71	
For Above Ground Cast Iron Pipe Installation, Add	2.91	
For Work In Restricted Working Space, Add	17.48	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0220	EA			3" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.41 26.66 3.66 21.97	48.91
22 13 16 00-0221	EA			4" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	216.04 41.50 4.87 29.24	65.03
22 13 16 00-0222	EA			5" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	341.32 79.51 5.71 34.25	76.18
22 13 16 00-0223	EA			6" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	363.03 82.47 6.37 38.22	84.93
22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent <small>(22 13 16 00-0030)</small>						
22 13 16 00-0225	EA			3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	245.97 7.13 42.79	93.89
22 13 16 00-0226	EA			4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	327.52 9.34 56.05	123.43
22 13 16 00-0227	EA			5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	424.02 10.00 60.00	132.31
22 13 16 00-0228	EA			6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	829.79 11.34 68.04	149.93
22 13 16 00-0229	EA			8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,664.22 13.52 81.09	178.27
22 13 16 00-0230	EA			8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,885.76 15.04 90.21	198.91
22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent <small>(22 13 16 00-0030)</small>						
22 13 16 00-0232	EA			3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	317.12 9.82 58.91	129.66
22 13 16 00-0233	EA			4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	429.65 12.43 74.55	163.67
22 13 16 00-0234	EA			6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	928.57 14.05 84.31	185.28
22 13 16 00-0235	EA			6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,078.77 16.99 101.96	224.28
22 13 16 00-0236	EA			8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,874.46 16.40 98.37	216.16
22 13 16 00-0237	EA			8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,158.05 19.41 116.48	256.67
22 13 16 00-0238	EA			10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,191.35 22.47 134.79	296.17
22 13 16 00-0239	EA			12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,787.45 25.94 155.63	342.42
22 13 16 00-0240	EA			15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	11,211.62 30.02 180.10	396.06
22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings <small>(22 13 16 00-0030)</small>						
22 13 16 00-0242	EA			2" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.64 2.91 17.44	
22 13 16 00-0243	EA			3" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	248.04 3.27 19.59	
22 13 16 00-0244	EA			4" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	288.45 4.37 26.24	
22 13 16 00-0245	EA			5" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	355.13 5.08 30.49	
22 13 16 00-0246	EA			6" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	431.16 6.14 36.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting.....	803.72	
For Above Ground Cast Iron Pipe Installation, Add	7.76	
For Work In Restricted Working Space, Add	46.54	
22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019)		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe.....	16.19	
For Above Ground Cast Iron Pipe Installation, Add	0.81	
For Work In Restricted Working Space, Add	4.86	
22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe.....	17.66	
For Above Ground Cast Iron Pipe Installation, Add	0.88	
For Work In Restricted Working Space, Add	5.30	
22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe.....	22.08	
For Above Ground Cast Iron Pipe Installation, Add	1.10	
For Work In Restricted Working Space, Add	6.62	
22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe.....	26.49	
For Above Ground Cast Iron Pipe Installation, Add	1.32	
For Work In Restricted Working Space, Add	7.95	
22 13 16 00-0253 EA 8", Cut And Prepare Existing In-Place Cast Iron Pipe.....	35.32	
For Above Ground Cast Iron Pipe Installation, Add	1.77	
For Work In Restricted Working Space, Add	10.60	
22 13 16 00-0254 EA 10", Cut And Prepare Existing In-Place Cast Iron Pipe.....	41.20	
For Above Ground Cast Iron Pipe Installation, Add	2.06	
For Work In Restricted Working Space, Add	12.36	
22 13 16 00-0255 EA 12", Cut And Prepare Existing In-Place Cast Iron Pipe.....	48.56	
For Above Ground Cast Iron Pipe Installation, Add	2.43	
For Work In Restricted Working Space, Add	14.57	
22 13 16 00-0256 EA 15", Cut And Prepare Existing In-Place Cast Iron Pipe.....	55.92	
For Above Ground Cast Iron Pipe Installation, Add	2.80	
For Work In Restricted Working Space, Add	16.78	
22 13 16 00-0257 Joint Material (22 13 16 00-0019)		
Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258 LB Lead (1 LB/Diameter Inch) Joint Material.....	6.03	
22 13 16 00-0259 LB Oakum (1/8 LB/Diameter Inch) Joint Material.....	16.96	
22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket.....	3.17	
22 13 16 00-0261 EA 3" Dual Tite Rubber Gasket.....	4.34	
22 13 16 00-0262 EA 4" Dual Tite Rubber Gasket.....	5.40	
22 13 16 00-0263 EA 6" Dual Tite Rubber Gasket.....	8.95	
22 13 16 00-0264 EA 8" Dual Tite Rubber Gasket.....	19.75	
22 13 16 00-0265 EA 10" Dual Tite Rubber Gasket.....	30.28	
22 13 16 00-0266 EA 12" Dual Tite Rubber Gasket.....	38.57	
22 13 16 00-0267 EA 15" Dual Tite Rubber Gasket.....	45.81	
22 13 16 00-0268 No Hub Cast Iron Soil Pipe And Fittings (22 13 16)		
Note: Service Weight. Excludes hangers.		
22 13 16 00-0269 No Hub Cast Iron Pipe (22 13 16 00-0268)		
Note: Excludes couplings.		
22 13 16 00-0270 LF 1-1/2" No Hub Cast Iron Pipe.....	20.21	8.13
For Below Ground Installation, Add	0.61	
For Work In Restricted Working Space, Add	3.66	
22 13 16 00-0271 LF 2" No Hub Cast Iron Pipe.....	21.50	8.67
For Below Ground Installation, Add	0.66	
For Work In Restricted Working Space, Add	3.93	
22 13 16 00-0272 LF 3" No Hub Cast Iron Pipe.....	30.58	12.60
For Below Ground Installation, Add	0.95	
For Work In Restricted Working Space, Add	5.69	
22 13 16 00-0273 LF 4" No Hub Cast Iron Pipe.....	39.69	16.39
For Below Ground Installation, Add	1.23	
For Work In Restricted Working Space, Add	7.39	
22 13 16 00-0274 LF 5" No Hub Cast Iron Pipe.....	48.86	18.59
For Below Ground Installation, Add	1.39	
For Work In Restricted Working Space, Add	8.36	
22 13 16 00-0275 LF 6" No Hub Cast Iron Pipe.....	56.32	20.29
For Below Ground Installation, Add	1.52	
For Work In Restricted Working Space, Add	9.11	
22 13 16 00-0276 LF 8" No Hub Cast Iron Pipe.....	85.53	29.38
For Below Ground Installation, Add	2.20	
For Work In Restricted Working Space, Add	13.19	
22 13 16 00-0277 LF 10" No Hub Cast Iron Pipe.....	118.92	33.38
For Below Ground Installation, Add	2.50	
For Work In Restricted Working Space, Add	15.00	
22 13 16 00-0278 No Hub Cast Iron Fittings (22 13 16 00-0268)		
22 13 16 00-0279 No Hub Cast Iron Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0280 EA 1-1/2" No Hub Cast Iron Long Sweep.....	74.07	36.85
For Below Ground Installation, Add	2.76	
For Work In Restricted Working Space, Add	16.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.89 2.88 17.30	38.48
22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.21 3.30 19.83	44.03
22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.35 4.37 26.22	58.26
22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.12 4.60 27.58	61.35
22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	187.75 5.49 32.92	73.14
22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	356.16 7.14 42.86	95.27
22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0288 EA 3" x 2" No Hub Cast Iron Reducing Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.07 3.30 19.83	44.03
22 13 16 00-0289 EA 4" x 3" No Hub Cast Iron Reducing Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	161.22 4.37 26.22	58.26
22 13 16 00-0290 No Hub Cast Iron Short Sweeps (22 13 16 00-0278)		
22 13 16 00-0291 EA 2" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.90 2.88 17.30	38.48
22 13 16 00-0292 EA 3" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.04 3.30 19.83	44.03
22 13 16 00-0293 EA 4" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.69 4.37 26.22	58.26
22 13 16 00-0294 EA 5" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.74 4.60 27.58	61.35
22 13 16 00-0295 EA 6" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	178.05 5.49 32.92	73.14
22 13 16 00-0296 EA 8" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	326.85 7.14 42.86	95.27
22 13 16 00-0297 EA 10" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	523.63 10.00 60.01	133.40
22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)		
22 13 16 00-0299 EA 1-1/2" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.13 2.77 16.59	36.85
22 13 16 00-0300 EA 2" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	70.15 2.88 17.30	38.48
22 13 16 00-0301 EA 3" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	82.58 3.30 19.83	44.03
22 13 16 00-0302 EA 4" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	111.84 4.37 26.22	58.26
22 13 16 00-0303 EA 5" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	146.50 4.60 27.58	61.35
22 13 16 00-0304 EA 6" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	170.22 5.49 32.92	73.14
22 13 16 00-0305 EA 8" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	304.03 7.14 42.86	95.27
22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0307 EA 1-1/2" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.58 2.77 16.59	36.85
22 13 16 00-0308 EA 2" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.14 2.88 17.30	38.48

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend.....	79.63	44.03
For Below Ground Installation, Add	3.30	
For Work In Restricted Working Space, Add	19.83	
22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend.....	105.20	58.26
For Below Ground Installation, Add	4.37	
For Work In Restricted Working Space, Add	26.22	
22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend.....	169.64	86.04
For Below Ground Installation, Add	6.45	
For Work In Restricted Working Space, Add	38.71	
22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend.....	277.45	113.00
For Below Ground Installation, Add	8.47	
For Work In Restricted Working Space, Add	50.81	
22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend.....	412.33	139.01
For Below Ground Installation, Add	10.42	
For Work In Restricted Working Space, Add	62.53	
22 13 16 00-0314 No Hub Cast Iron Wyes (22 13 16 00-0278)		
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye.....	103.34	57.98
For Below Ground Installation, Add	4.34	
For Work In Restricted Working Space, Add	26.06	
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye.....	134.52	78.58
For Below Ground Installation, Add	5.89	
For Work In Restricted Working Space, Add	35.35	
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye.....	151.85	86.04
For Below Ground Installation, Add	6.45	
For Work In Restricted Working Space, Add	38.71	
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye.....	206.39	113.00
For Below Ground Installation, Add	8.47	
For Work In Restricted Working Space, Add	50.81	
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye.....	259.17	119.43
For Below Ground Installation, Add	8.95	
For Work In Restricted Working Space, Add	53.71	
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye.....	307.58	141.78
For Below Ground Installation, Add	10.63	
For Work In Restricted Working Space, Add	63.78	
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye.....	508.89	190.66
For Below Ground Installation, Add	14.29	
For Work In Restricted Working Space, Add	85.73	
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye.....	800.65	211.78
For Below Ground Installation, Add	15.88	
For Work In Restricted Working Space, Add	95.25	
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye.....	130.44	75.06
For Below Ground Installation, Add	5.62	
For Work In Restricted Working Space, Add	33.73	
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye.....	147.03	86.04
For Below Ground Installation, Add	6.45	
For Work In Restricted Working Space, Add	38.71	
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye.....	165.65	95.11
For Below Ground Installation, Add	7.13	
For Work In Restricted Working Space, Add	42.79	
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye.....	189.32	105.68
For Below Ground Installation, Add	7.92	
For Work In Restricted Working Space, Add	47.54	
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye.....	232.14	120.64
For Below Ground Installation, Add	9.05	
For Work In Restricted Working Space, Add	54.29	
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye.....	246.72	126.11
For Below Ground Installation, Add	9.45	
For Work In Restricted Working Space, Add	56.70	
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye.....	284.13	147.37
For Below Ground Installation, Add	11.05	
For Work In Restricted Working Space, Add	66.27	
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye.....	352.50	149.90
For Below Ground Installation, Add	11.24	
For Work In Restricted Working Space, Add	67.43	
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye.....	404.73	164.77
For Below Ground Installation, Add	12.35	
For Work In Restricted Working Space, Add	74.09	
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye.....	597.33	175.53
For Below Ground Installation, Add	13.16	
For Work In Restricted Working Space, Add	78.96	
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye.....	631.32	187.90
For Below Ground Installation, Add	14.09	
For Work In Restricted Working Space, Add	84.52	
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye.....	720.61	200.66
For Below Ground Installation, Add	15.04	
For Work In Restricted Working Space, Add	90.24	
22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0337	EA			1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend.....	117.81	67.47
				<i>For Below Ground Installation, Add</i>	5.06	
				<i>For Work In Restricted Working Space, Add</i>	30.33	
22 13 16 00-0338	EA			2" No Hub Cast Iron Combination Wye And 1/8 Bend.....	135.20	78.58
				<i>For Below Ground Installation, Add</i>	5.89	
				<i>For Work In Restricted Working Space, Add</i>	35.35	
22 13 16 00-0339	EA			3" No Hub Cast Iron Combination Wye And 1/8 Bend.....	156.93	86.04
				<i>For Below Ground Installation, Add</i>	6.45	
				<i>For Work In Restricted Working Space, Add</i>	38.71	
22 13 16 00-0340	EA			4" No Hub Cast Iron Combination Wye And 1/8 Bend.....	220.76	113.00
				<i>For Below Ground Installation, Add</i>	8.47	
				<i>For Work In Restricted Working Space, Add</i>	50.81	
22 13 16 00-0341	EA			6" No Hub Cast Iron Combination Wye And 1/8 Bend.....	389.96	173.83
				<i>For Below Ground Installation, Add</i>	13.03	
				<i>For Work In Restricted Working Space, Add</i>	78.17	
22 13 16 00-0342	EA			8" No Hub Cast Iron Combination Wye And 1/8 Bend.....	659.07	223.01
				<i>For Below Ground Installation, Add</i>	16.72	
				<i>For Work In Restricted Working Space, Add</i>	100.31	
22 13 16 00-0343	EA			10" No Hub Cast Iron Combination Wye And 1/8 Bend.....	777.02	269.62
				<i>For Below Ground Installation, Add</i>	20.21	
				<i>For Work In Restricted Working Space, Add</i>	121.26	
22 13 16 00-0344				No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0345	EA			2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	136.03	78.58
				<i>For Below Ground Installation, Add</i>	5.89	
				<i>For Work In Restricted Working Space, Add</i>	35.35	
22 13 16 00-0346	EA			3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	149.57	86.04
				<i>For Below Ground Installation, Add</i>	6.45	
				<i>For Work In Restricted Working Space, Add</i>	38.71	
22 13 16 00-0347	EA			4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	170.73	95.11
				<i>For Below Ground Installation, Add</i>	7.13	
				<i>For Work In Restricted Working Space, Add</i>	42.79	
22 13 16 00-0348	EA			4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	194.25	105.68
				<i>For Below Ground Installation, Add</i>	7.92	
				<i>For Work In Restricted Working Space, Add</i>	47.54	
22 13 16 00-0349	EA			6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	246.93	120.64
				<i>For Below Ground Installation, Add</i>	9.05	
				<i>For Work In Restricted Working Space, Add</i>	54.29	
22 13 16 00-0350	EA			6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	272.55	126.11
				<i>For Below Ground Installation, Add</i>	9.45	
				<i>For Work In Restricted Working Space, Add</i>	56.70	
22 13 16 00-0351	EA			6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	306.74	147.37
				<i>For Below Ground Installation, Add</i>	11.05	
				<i>For Work In Restricted Working Space, Add</i>	66.27	
22 13 16 00-0352	EA			8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	394.77	149.90
				<i>For Below Ground Installation, Add</i>	11.24	
				<i>For Work In Restricted Working Space, Add</i>	67.43	
22 13 16 00-0353	EA			8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	501.36	164.77
				<i>For Below Ground Installation, Add</i>	12.35	
				<i>For Work In Restricted Working Space, Add</i>	74.09	
22 13 16 00-0354				No Hub Cast Iron Double Wyes (22 13 16 00-0278)		
22 13 16 00-0355	EA			2" No Hub Cast Iron Double Wye	169.76	97.68
				<i>For Below Ground Installation, Add</i>	7.32	
				<i>For Work In Restricted Working Space, Add</i>	43.94	
22 13 16 00-0356	EA			3" No Hub Cast Iron Double Wye	221.23	118.96
				<i>For Below Ground Installation, Add</i>	8.91	
				<i>For Work In Restricted Working Space, Add</i>	53.48	
22 13 16 00-0357	EA			4" No Hub Cast Iron Double Wye	283.32	130.07
				<i>For Below Ground Installation, Add</i>	9.75	
				<i>For Work In Restricted Working Space, Add</i>	58.48	
22 13 16 00-0358	EA			6" No Hub Cast Iron Double Wye	420.14	178.72
				<i>For Below Ground Installation, Add</i>	13.39	
				<i>For Work In Restricted Working Space, Add</i>	80.36	
22 13 16 00-0359	EA			8" No Hub Cast Iron Double Wye	776.09	242.53
				<i>For Below Ground Installation, Add</i>	18.18	
				<i>For Work In Restricted Working Space, Add</i>	109.11	
22 13 16 00-0360				No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)		
22 13 16 00-0361	EA			3" x 2" No Hub Cast Iron Double Wye	199.09	108.25
				<i>For Below Ground Installation, Add</i>	8.11	
				<i>For Work In Restricted Working Space, Add</i>	48.68	
22 13 16 00-0362	EA			4" x 2" No Hub Cast Iron Double Wye	236.36	124.65
				<i>For Below Ground Installation, Add</i>	9.34	
				<i>For Work In Restricted Working Space, Add</i>	56.06	
22 13 16 00-0363	EA			4" x 3" No Hub Cast Iron Double Wye	259.55	135.89
				<i>For Below Ground Installation, Add</i>	10.19	
				<i>For Work In Restricted Working Space, Add</i>	61.12	
22 13 16 00-0364	EA			6" x 4" No Hub Cast Iron Double Wye	359.73	157.58
				<i>For Below Ground Installation, Add</i>	11.81	
				<i>For Work In Restricted Working Space, Add</i>	70.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0366 EA 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	216.77	117.34
<i>For Below Ground Installation, Add</i>	8.80	
<i>For Work In Restricted Working Space, Add</i>	52.79	
22 13 16 00-0367 EA 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	258.17	130.07
<i>For Below Ground Installation, Add</i>	9.75	
<i>For Work In Restricted Working Space, Add</i>	58.48	
22 13 16 00-0368 EA 4" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	378.82	172.20
<i>For Below Ground Installation, Add</i>	12.90	
<i>For Work In Restricted Working Space, Add</i>	77.42	
22 13 16 00-0369 EA 6" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	539.47	265.82
<i>For Below Ground Installation, Add</i>	19.93	
<i>For Work In Restricted Working Space, Add</i>	119.55	
22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0371 EA 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	198.73	100.94
<i>For Below Ground Installation, Add</i>	7.57	
<i>For Work In Restricted Working Space, Add</i>	45.41	
22 13 16 00-0372 EA 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	230.51	117.34
<i>For Below Ground Installation, Add</i>	8.80	
<i>For Work In Restricted Working Space, Add</i>	52.79	
22 13 16 00-0373 EA 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	271.49	128.17
<i>For Below Ground Installation, Add</i>	9.61	
<i>For Work In Restricted Working Space, Add</i>	57.65	
22 13 16 00-0374 No Hub Cast Iron Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0375 EA 1-1/2" No Hub Cast Iron Sanitary Tee.....	100.87	56.77
<i>For Below Ground Installation, Add</i>	4.26	
<i>For Work In Restricted Working Space, Add</i>	25.56	
22 13 16 00-0376 EA 2" No Hub Cast Iron Sanitary Tee.....	135.35	78.58
<i>For Below Ground Installation, Add</i>	5.89	
<i>For Work In Restricted Working Space, Add</i>	35.35	
22 13 16 00-0377 EA 3" No Hub Cast Iron Sanitary Tee.....	149.98	86.04
<i>For Below Ground Installation, Add</i>	6.45	
<i>For Work In Restricted Working Space, Add</i>	38.71	
22 13 16 00-0378 EA 4" No Hub Cast Iron Sanitary Tee.....	202.14	113.00
<i>For Below Ground Installation, Add</i>	8.47	
<i>For Work In Restricted Working Space, Add</i>	50.81	
22 13 16 00-0379 EA 5" No Hub Cast Iron Sanitary Tee.....	260.06	119.43
<i>For Below Ground Installation, Add</i>	8.95	
<i>For Work In Restricted Working Space, Add</i>	53.71	
22 13 16 00-0380 EA 6" No Hub Cast Iron Sanitary Tee.....	306.96	141.78
<i>For Below Ground Installation, Add</i>	10.63	
<i>For Work In Restricted Working Space, Add</i>	63.78	
22 13 16 00-0381 EA 8" No Hub Cast Iron Sanitary Tee.....	561.33	190.66
<i>For Below Ground Installation, Add</i>	14.29	
<i>For Work In Restricted Working Space, Add</i>	85.73	
22 13 16 00-0382 No Hub Cast Iron Reducing Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0383 EA 2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee.....	113.62	64.09
<i>For Below Ground Installation, Add</i>	4.80	
<i>For Work In Restricted Working Space, Add</i>	28.83	
22 13 16 00-0384 EA 3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee.....	131.89	75.06
<i>For Below Ground Installation, Add</i>	5.62	
<i>For Work In Restricted Working Space, Add</i>	33.73	
22 13 16 00-0385 EA 3" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	137.27	78.58
<i>For Below Ground Installation, Add</i>	5.89	
<i>For Work In Restricted Working Space, Add</i>	35.35	
22 13 16 00-0386 EA 3" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	157.34	78.58
<i>For Below Ground Installation, Add</i>	5.89	
<i>For Work In Restricted Working Space, Add</i>	35.35	
22 13 16 00-0387 EA 4" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	184.35	106.35
<i>For Below Ground Installation, Add</i>	7.97	
<i>For Work In Restricted Working Space, Add</i>	47.82	
22 13 16 00-0388 EA 4" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	189.22	106.35
<i>For Below Ground Installation, Add</i>	7.97	
<i>For Work In Restricted Working Space, Add</i>	47.82	
22 13 16 00-0389 EA 5" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	228.03	113.47
<i>For Below Ground Installation, Add</i>	8.50	
<i>For Work In Restricted Working Space, Add</i>	51.03	
22 13 16 00-0390 EA 5" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	234.82	113.47
<i>For Below Ground Installation, Add</i>	8.50	
<i>For Work In Restricted Working Space, Add</i>	51.03	
22 13 16 00-0391 EA 5" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	235.65	113.47
<i>For Below Ground Installation, Add</i>	8.50	
<i>For Work In Restricted Working Space, Add</i>	51.03	
22 13 16 00-0392 EA 6" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	244.66	118.22
<i>For Below Ground Installation, Add</i>	8.86	
<i>For Work In Restricted Working Space, Add</i>	53.15	



	Plumbing	22
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	Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	446.34 12.05 72.30	160.78
22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)		
22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.23 2.88 17.30	38.48
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.20 3.30 19.83	44.03
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	108.99 4.37 26.22	58.26
22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0399 EA 2" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.17 2.88 17.30	38.48
22 13 16 00-0400 EA 3" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.43 3.30 19.83	44.03
22 13 16 00-0401 EA 4" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.44 4.37 26.22	58.26
22 13 16 00-0402 EA 6" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	209.06 6.45 38.71	86.04
22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0404 EA 4" No Hub Cast Iron Single Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	286.51 8.47 50.81	113.00
22 13 16 00-0405 EA 4" No Hub Cast Iron Double Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	366.20 12.87 77.23	171.66
22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)		
22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.82 2.88 17.30	38.48
22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.79 3.30 19.83	44.03
22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.82 4.37 26.22	58.26
22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	163.42 6.45 38.71	86.04
22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	216.61 8.47 50.81	113.00
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	135.02 5.69 34.16	75.88
22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	144.27 5.89 35.35	78.58
22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	170.68 6.45 38.71	86.04
22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.63 8.47 50.81	113.00
22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0418 EA 3" x 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	188.80 7.57 45.41	100.94
22 13 16 00-0419 EA 4" x 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	208.72 7.79 46.74	103.92

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0420 EA 4" x 3" No Hub Cast Iron Sanitary Cross	226.46	108.53
For Below Ground Installation, Add	8.13	
For Work In Restricted Working Space, Add	48.78	
22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)		
22 13 16 00-0422 EA 3" x 2" No Hub Cast Iron Reducer	126.69	78.58
For Below Ground Installation, Add	5.89	
For Work In Restricted Working Space, Add	35.35	
22 13 16 00-0423 EA 4" x 2" No Hub Cast Iron Reducer	172.94	106.35
For Below Ground Installation, Add	7.97	
For Work In Restricted Working Space, Add	47.82	
22 13 16 00-0424 EA 4" x 3" No Hub Cast Iron Reducer	173.35	106.35
For Below Ground Installation, Add	7.97	
For Work In Restricted Working Space, Add	47.82	
22 13 16 00-0425 EA 5" x 2" No Hub Cast Iron Reducer	189.96	113.47
For Below Ground Installation, Add	8.50	
For Work In Restricted Working Space, Add	51.03	
22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer	192.70	113.47
For Below Ground Installation, Add	8.50	
For Work In Restricted Working Space, Add	51.03	
22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer	193.79	113.47
For Below Ground Installation, Add	8.50	
For Work In Restricted Working Space, Add	51.03	
22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer	223.27	126.11
For Below Ground Installation, Add	9.45	
For Work In Restricted Working Space, Add	56.70	
22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer	223.69	126.11
For Below Ground Installation, Add	9.45	
For Work In Restricted Working Space, Add	56.70	
22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer	224.93	126.11
For Below Ground Installation, Add	9.45	
For Work In Restricted Working Space, Add	56.70	
22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer	312.40	177.90
For Below Ground Installation, Add	13.34	
For Work In Restricted Working Space, Add	80.01	
22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer	315.57	177.90
For Below Ground Installation, Add	13.34	
For Work In Restricted Working Space, Add	80.01	
22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer	320.65	177.90
For Below Ground Installation, Add	13.34	
For Work In Restricted Working Space, Add	80.01	
22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer	325.94	177.90
For Below Ground Installation, Add	13.34	
For Work In Restricted Working Space, Add	80.01	
22 13 16 00-0435 EA 8" x 6" No Hub Cast Iron Reducer	326.56	177.90
For Below Ground Installation, Add	13.34	
For Work In Restricted Working Space, Add	80.01	
22 13 16 00-0436 EA 10" x 4" No Hub Cast Iron Reducer	379.42	187.66
For Below Ground Installation, Add	14.06	
For Work In Restricted Working Space, Add	84.39	
22 13 16 00-0437 EA 10" x 6" No Hub Cast Iron Reducer	403.76	195.90
For Below Ground Installation, Add	14.69	
For Work In Restricted Working Space, Add	88.14	
22 13 16 00-0438 EA 10" x 8" No Hub Cast Iron Reducer	450.54	212.66
For Below Ground Installation, Add	15.94	
For Work In Restricted Working Space, Add	95.64	
22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)		
22 13 16 00-0440 EA 1-1/2" No Hub Cast Iron Blind Plug.....	32.73	18.44
For Below Ground Installation, Add	1.38	
For Work In Restricted Working Space, Add	8.30	
22 13 16 00-0441 EA 2" No Hub Cast Iron Blind Plug.....	33.72	19.24
For Below Ground Installation, Add	1.44	
For Work In Restricted Working Space, Add	8.65	
22 13 16 00-0442 EA 3" No Hub Cast Iron Blind Plug.....	41.71	22.09
For Below Ground Installation, Add	1.65	
For Work In Restricted Working Space, Add	9.92	
22 13 16 00-0443 EA 4" No Hub Cast Iron Blind Plug.....	55.29	29.13
For Below Ground Installation, Add	2.18	
For Work In Restricted Working Space, Add	13.10	
22 13 16 00-0444 EA 5" No Hub Cast Iron Blind Plug.....	68.35	31.23
For Below Ground Installation, Add	2.34	
For Work In Restricted Working Space, Add	14.03	
22 13 16 00-0445 EA 6" No Hub Cast Iron Blind Plug.....	76.70	36.57
For Below Ground Installation, Add	2.75	
For Work In Restricted Working Space, Add	16.48	
22 13 16 00-0446 EA 8" No Hub Cast Iron Blind Plug.....	140.11	47.63
For Below Ground Installation, Add	3.57	
For Work In Restricted Working Space, Add	21.42	
22 13 16 00-0447 EA 10" No Hub Cast Iron Blind Plug.....	175.69	51.26
For Below Ground Installation, Add	3.84	
For Work In Restricted Working Space, Add	23.06	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap.....	75.65	38.48
For Below Ground Installation, Add	2.88	
For Work In Restricted Working Space, Add	17.30	
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap.....	107.12	44.03
For Below Ground Installation, Add	3.30	
For Work In Restricted Working Space, Add	19.83	
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap.....	158.68	58.26
For Below Ground Installation, Add	4.37	
For Work In Restricted Working Space, Add	26.22	
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap.....	255.73	61.84
For Below Ground Installation, Add	4.63	
For Work In Restricted Working Space, Add	27.80	
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap.....	273.79	73.75
For Below Ground Installation, Add	5.53	
For Work In Restricted Working Space, Add	33.17	
22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)		
22 13 16 00-0455 EA 2" No Hub Cast Iron Deep Seal P-Trap.....	116.18	48.91
For Below Ground Installation, Add	3.66	
For Work In Restricted Working Space, Add	21.97	
22 13 16 00-0456 EA 3" No Hub Cast Iron Deep Seal P-Trap.....	165.99	65.03
For Below Ground Installation, Add	4.87	
For Work In Restricted Working Space, Add	29.24	
22 13 16 00-0457 EA 4" No Hub Cast Iron Deep Seal P-Trap.....	238.67	85.89
For Below Ground Installation, Add	6.44	
For Work In Restricted Working Space, Add	38.61	
22 13 16 00-0458 No Hub Cast Iron Closet Flanges (22 13 16 00-0278)		
22 13 16 00-0459 EA 4" No Hub Cast Iron Closet Flange.....	115.94	58.26
For Below Ground Installation, Add	4.37	
For Work In Restricted Working Space, Add	26.22	
22 13 16 00-0460 EA 4" x 2-1/2" No Hub Cast Iron Offset Closet Flange.....	121.86	58.26
For Below Ground Installation, Add	4.37	
For Work In Restricted Working Space, Add	26.22	
22 13 16 00-0461 No Hub Cast Iron Closet Bends (22 13 16 00-0278)		
22 13 16 00-0462 EA 4" x 16" No Hub Cast Iron Closet Bend.....	199.08	58.26
For Below Ground Installation, Add	4.37	
For Work In Restricted Working Space, Add	26.22	
22 13 16 00-0463 No Hub Cast Iron Threaded Adapter (22 13 16 00-0278)		
22 13 16 00-0464 EA 1-1/4" No Hub Cast Iron Threaded Adapter.....	88.69	48.91
For Below Ground Installation, Add	3.66	
For Work In Restricted Working Space, Add	21.97	
22 13 16 00-0465 EA 1-1/2" No Hub Cast Iron Threaded Adapter.....	93.46	48.91
For Below Ground Installation, Add	3.66	
For Work In Restricted Working Space, Add	21.97	
22 13 16 00-0466 No Hub Couplings (22 13 16 00-0278)		
Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH).		
22 13 16 00-0467 EA 1-1/2" No Hub Coupling.....	18.04	
For Medium Duty (Fernco MD-2000), Add	2.35	
For Heavy Duty (Fernco HD-4000), Add	4.87	
22 13 16 00-0468 EA 2" No Hub Coupling.....	18.04	
For Medium Duty (Fernco MD-2000), Add	2.35	
For Heavy Duty (Fernco HD-4000), Add	4.87	
22 13 16 00-0469 EA 3" No Hub Coupling.....	21.41	
For Medium Duty (Fernco MD-2000), Add	2.78	
For Heavy Duty (Fernco HD-4000), Add	5.78	
22 13 16 00-0470 EA 4" No Hub Coupling.....	25.42	
For Medium Duty (Fernco MD-2000), Add	3.30	
For Heavy Duty (Fernco HD-4000), Add	6.86	
22 13 16 00-0471 EA 5" No Hub Coupling.....	58.78	
For Medium Duty (Fernco MD-2000), Add	7.64	
For Heavy Duty (Fernco HD-4000), Add	15.87	
22 13 16 00-0472 EA 6" No Hub Coupling.....	64.58	
For Medium Duty (Fernco MD-2000), Add	8.40	
For Heavy Duty (Fernco HD-4000), Add	17.44	
22 13 16 00-0473 EA 8" No Hub Coupling.....	121.67	
For Medium Duty (Fernco MD-2000), Add	15.82	
For Heavy Duty (Fernco HD-4000), Add	32.85	
22 13 16 00-0474 EA 10" No Hub Coupling.....	167.61	
For Medium Duty (Fernco MD-2000), Add	21.79	
For Heavy Duty (Fernco HD-4000), Add	45.25	
22 13 16 00-0475 EA 2" x 1-1/2" No Hub Reducing Coupling.....	21.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0476 EA 3" x 2" No Hub Reducing Coupling	33.20	
22 13 16 00-0477 EA 4" x 2" No Hub Reducing Coupling	46.32	
22 13 16 00-0478 EA 4" x 3" No Hub Reducing Coupling	39.47	
22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts <small>(22 13 16 00-0278)</small>		
Note: For underground connections. See CSI section 22 13 16 00-0870 for additional FERNCO couplings.		
22 13 16 00-0480 EA 1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	34.17	
22 13 16 00-0481 EA 2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	35.27	
22 13 16 00-0482 EA 3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	37.03	
22 13 16 00-0483 EA 4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	43.20	
22 13 16 00-0484 EA 5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	81.56	
22 13 16 00-0485 EA 6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	111.98	
22 13 16 00-0486 EA 8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	196.19	
22 13 16 00-0487 EA 10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	299.79	
22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place <small>(22 13 16 00-0268)</small>		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0489 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub	13.24	
<i>For Work In Restricted Working Space, Add</i>		
	3.97	
22 13 16 00-0490 EA Cut And Prepare 2" Cast Iron Pipe, No Hub	16.19	
<i>For Work In Restricted Working Space, Add</i>		
	4.86	
22 13 16 00-0491 EA Cut And Prepare 3" Cast Iron Pipe, No Hub	17.66	
<i>For Work In Restricted Working Space, Add</i>		
	5.30	
22 13 16 00-0492 EA Cut And Prepare 4" Cast Iron Pipe, No Hub	22.08	
<i>For Work In Restricted Working Space, Add</i>		
	6.62	
22 13 16 00-0493 EA Cut And Prepare 6" Cast Iron Pipe, No Hub	26.48	
<i>For Work In Restricted Working Space, Add</i>		
	7.94	
22 13 16 00-0494 EA Cut And Prepare 8" Cast Iron Pipe, No Hub	35.32	
<i>For Work In Restricted Working Space, Add</i>		
	10.60	
22 13 16 00-0495 EA Cut And Prepare 10" Cast Iron Pipe, No Hub	41.21	
<i>For Work In Restricted Working Space, Add</i>		
	12.36	
22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe <small>(22 13 16)</small>		
See CSI section 22 11 16 00-0436 for copper and brass fittings.		
22 13 16 00-0497 LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe	20.77	6.37
22 13 16 00-0498 LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe	24.75	7.11
22 13 16 00-0499 LF 2" Hard Drawn DWV Copper Tube/Pipe	31.84	8.77
22 13 16 00-0500 LF 3" Hard Drawn DWV Copper Tube/Pipe	69.01	12.15
22 13 16 00-0501 LF 4" Hard Drawn DWV Copper Tube/Pipe	95.86	13.71
22 13 16 00-0502 LF 5" Hard Drawn DWV Copper Tube/Pipe	186.55	15.74
22 13 16 00-0503 LF 6" Hard Drawn DWV Copper Tube/Pipe	266.39	24.40
22 13 16 00-0504 Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small>		
Note: Aboveground installation.		
22 13 16 00-0505 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0504)</small>		
22 13 16 00-0506 Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0505)</small>		
Note: Includes all fittings. Fittings are assumed every 20'. Excludes excavation, backfill and compaction. Not for use where detail is available. Not for use where detail is available.		
22 13 16 00-0507 LF 1-1/2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	14.32	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	3.17	
22 13 16 00-0508 LF 2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	17.26	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	3.86	
22 13 16 00-0509 LF 3" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	27.54	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	5.46	
22 13 16 00-0510 LF 4" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	34.51	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	6.02	
22 13 16 00-0511 LF 6" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	58.95	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	7.75	
22 13 16 00-0512 LF 8" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	83.70	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	10.35	
22 13 16 00-0513 LF 10" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	120.24	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	13.81	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0514 Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0505)</small> Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0515 LF 1-1/2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	28.55	5.69
For Work In Restricted Working Space, Add	6.52	
22 13 16 00-0516 LF 2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	32.03	6.78
For Work In Restricted Working Space, Add	7.25	
22 13 16 00-0517 LF 3" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	44.20	9.76
For Work In Restricted Working Space, Add	9.01	
22 13 16 00-0518 LF 4" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	54.31	10.57
For Work In Restricted Working Space, Add	9.84	
22 13 16 00-0519 LF 6" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	82.60	13.55
For Work In Restricted Working Space, Add	12.61	
22 13 16 00-0520 LF 8" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	106.99	18.02
For Work In Restricted Working Space, Add	14.45	
22 13 16 00-0521 LF 10" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	149.20	24.12
For Work In Restricted Working Space, Add	18.83	
22 13 16 00-0522 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0523 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) <small>(22 13 16 00-0522)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0524 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe For Work In Restricted Working Space, Add	11.09 2.54	5.69
22 13 16 00-0525 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe For Work In Restricted Working Space, Add	13.59 3.05	6.78
22 13 16 00-0526 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe For Work In Restricted Working Space, Add	21.45 4.37	9.76
22 13 16 00-0527 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe For Work In Restricted Working Space, Add	25.53 4.74	10.57
22 13 16 00-0528 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe For Work In Restricted Working Space, Add	35.56 5.46	12.15
22 13 16 00-0529 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe For Work In Restricted Working Space, Add	50.62 7.29	16.16
22 13 16 00-0530 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe For Work In Restricted Working Space, Add	72.71 9.72	21.63
22 13 16 00-0531 Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) <small>(22 13 16 00-0522)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0532 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe For Work In Restricted Working Space, Add	10.31 2.54	5.69
22 13 16 00-0533 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe For Work In Restricted Working Space, Add	12.66 3.05	6.78
22 13 16 00-0534 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe For Work In Restricted Working Space, Add	19.69 4.37	9.76
22 13 16 00-0535 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe For Work In Restricted Working Space, Add	23.20 4.74	10.57
22 13 16 00-0536 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe For Work In Restricted Working Space, Add	31.22 5.46	12.15
22 13 16 00-0537 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe For Work In Restricted Working Space, Add	44.53 7.29	16.16
22 13 16 00-0538 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe For Work In Restricted Working Space, Add	66.08 9.72	21.63
22 13 16 00-0539 Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) <small>(22 13 16 00-0504)</small>		
22 13 16 00-0540 Polyvinyl Chloride (PVC) DWV 1/4 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0541 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends For Work In Restricted Working Space, Add	40.08 10.16	22.63
22 13 16 00-0542 EA 2" Polyvinyl Chloride (PVC) DWV 1/4 Bends For Work In Restricted Working Space, Add	51.23 13.01	28.86
22 13 16 00-0543 EA 3" Polyvinyl Chloride (PVC) DWV 1/4 Bends For Work In Restricted Working Space, Add	82.71 17.48	38.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0544 EA 4" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	119.62 20.32	45.12
22 13 16 00-0545 EA 6" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	403.75 26.42	58.67
22 13 16 00-0546 EA 8" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	659.30 35.57	78.99
22 13 16 00-0547 EA 10" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	870.99 47.42	105.28
22 13 16 00-0548 Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends (22 13 16 00-0539)		
22 13 16 00-0549 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	57.49 10.16	22.63
22 13 16 00-0550 EA 2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	61.25 13.01	28.86
22 13 16 00-0551 EA 3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	108.47 17.48	38.75
22 13 16 00-0552 EA 4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	166.85 20.32	45.12
22 13 16 00-0553 EA 6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	312.53 26.42	58.67
22 13 16 00-0554 EA 8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	539.41 35.57	78.99
22 13 16 00-0555 EA 10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	868.84 47.42	105.28
22 13 16 00-0556 Polyvinyl Chloride (PVC) DWV 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0557 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	41.51 10.16	22.63
22 13 16 00-0558 EA 2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	51.11 13.01	28.86
22 13 16 00-0559 EA 3" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	80.56 17.48	38.75
22 13 16 00-0560 EA 4" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	109.12 20.32	45.12
22 13 16 00-0561 EA 6" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	377.04 26.42	58.67
22 13 16 00-0562 EA 8" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	597.20 35.57	78.99
22 13 16 00-0563 EA 10" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	688.34 47.42	105.28
22 13 16 00-0564 Polyvinyl Chloride (PVC) DWV Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0565 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	61.90 15.24	33.88
22 13 16 00-0566 EA 2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	80.89 19.51	43.36
22 13 16 00-0567 EA 3" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	129.61 26.22	58.26
22 13 16 00-0568 EA 4" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	182.12 30.49	67.74
22 13 16 00-0569 EA 6" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	600.35 39.63	87.93
22 13 16 00-0570 EA 8" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	783.15 53.35	118.41
22 13 16 00-0571 Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0572 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	75.59 16.67	36.99
22 13 16 00-0573 EA 2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	87.96 18.09	40.10
22 13 16 00-0574 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	76.15 18.09	40.10
22 13 16 00-0575 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	107.51 22.56	50.13
22 13 16 00-0576 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	110.71 23.98	53.25
22 13 16 00-0577 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	128.09 25.40	56.36
22 13 16 00-0578 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	198.55 26.83	59.61
22 13 16 00-0579 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	245.24 29.06	64.49
22 13 16 00-0580 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	574.77 36.58	81.16
22 13 16 00-0581 EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,728.71 45.73	101.48
22 13 16 00-0582 EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,789.69 48.78	108.25



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0583				Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <small>(22 13 16 00-0539)</small>		
			EA	1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	101.13 20.32	45.12
			EA	2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	135.61 26.01	57.72
			EA	3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	253.67 34.96	77.64
			EA	4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	356.00 40.65	90.23
22 13 16 00-0588				Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees <small>(22 13 16 00-0539)</small>		
			EA	2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	121.42 23.17	51.49
			EA	3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	195.94 27.64	61.37
			EA	3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	224.63 30.49	67.74
			EA	4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	381.99 33.33	73.98
			EA	4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	404.34 37.80	83.86
22 13 16 00-0594				Polyvinyl Chloride (PVC) DWV Reducers <small>(22 13 16 00-0539)</small>		
			EA	2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	51.01 11.58	25.74
			EA	3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	85.67 13.82	30.62
			EA	3" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	83.96 15.24	33.88
			EA	4" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	121.14 16.67	36.99
			EA	4" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	131.58 18.90	42.00
			EA	6" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	419.61 21.95	48.77
			EA	6" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	356.15 23.37	51.89
			EA	8" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	856.62 27.95	62.06
			EA	8" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	731.47 30.99	68.83
			EA	10" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	978.04 36.92	81.97
			EA	10" x 8" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	779.72 41.49	92.13
22 13 16 00-0606				Polyvinyl Chloride (PVC) DWV P-Traps <small>(22 13 16 00-0539)</small>		
			EA	1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	72.52 15.24	33.88
			EA	2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	94.61 19.51	43.36
			EA	3" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	234.68 26.22	58.26
			EA	4" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	452.37 30.49	67.74
			EA	6" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	752.26 39.63	87.93
22 13 16 00-0612				Polyvinyl Chloride (PVC) DWV Closet Flanges <small>(22 13 16 00-0539)</small>		
			EA	4" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	109.36 20.32	45.12
			EA	4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	92.10 18.90	42.00
22 13 16 00-0615				Polyvinyl Chloride (PVC) DWV Wyes <small>(22 13 16 00-0539)</small>		
			EA	1-1/2" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	72.99 15.24	33.88
			EA	2" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	87.33 19.51	43.36
			EA	3" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	137.84 26.22	58.26
			EA	4" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	195.60 30.49	67.74
			EA	6" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	549.78 39.63	87.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0621 EA 8" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	687.09 53.35	118.41
22 13 16 00-0622 EA 10" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	905.35 71.13	157.84
22 13 16 00-0623 Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0539)		
22 13 16 00-0624 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	95.15 16.67	36.99
22 13 16 00-0625 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	99.53 18.09	40.10
22 13 16 00-0626 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	136.83 22.56	50.13
22 13 16 00-0627 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	118.94 23.98	53.25
22 13 16 00-0628 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	182.55 25.40	56.36
22 13 16 00-0629 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	164.92 26.83	59.61
22 13 16 00-0630 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	185.01 29.06	64.49
22 13 16 00-0631 EA 6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	496.10 35.16	78.04
22 13 16 00-0632 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	606.54 36.58	81.16
22 13 16 00-0633 EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	588.91 45.73	101.48
22 13 16 00-0634 EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	733.70 48.78	108.25
22 13 16 00-0635 EA 10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	683.71 57.58	127.77
22 13 16 00-0636 EA 10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	840.12 60.63	134.54
22 13 16 00-0637 EA 10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	972.15 65.20	144.70
22 13 16 00-0638 Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0539)		
22 13 16 00-0639 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	114.97 20.32	45.12
22 13 16 00-0640 EA 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	147.41 26.01	57.72
22 13 16 00-0641 EA 3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	273.35 34.96	77.64
22 13 16 00-0642 EA 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	453.44 40.65	90.23
22 13 16 00-0643 EA 6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	896.21 52.84	117.34
22 13 16 00-0644 EA 8" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,049.78 71.13	157.98
22 13 16 00-0645 EA 10" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,611.10 94.84	210.54
22 13 16 00-0646 Polyvinyl Chloride (PVC) DWV Reducing Double Wyes (22 13 16 00-0539)		
22 13 16 00-0647 EA 2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	132.68 23.17	51.49
22 13 16 00-0648 EA 3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	229.74 27.64	61.37
22 13 16 00-0649 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	218.38 30.49	67.74
22 13 16 00-0650 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	301.70 33.33	73.98
22 13 16 00-0651 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	377.77 37.80	83.86
22 13 16 00-0652 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	569.31 46.74	103.79
22 13 16 00-0653 EA 8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	667.78 55.89	124.10
22 13 16 00-0654 EA 8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	839.64 61.99	137.65
22 13 16 00-0655 EA 10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	889.64 67.74	150.39
22 13 16 00-0656 EA 10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,139.23 73.84	163.94
22 13 16 00-0657 EA 10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,370.58 82.98	184.26
22 13 16 00-0658 Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0659 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	86.83 15.24	33.88



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				22 13 16 00-0660 EA 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 108.92		43.36
				<i>For Work In Restricted Working Space, Add</i> 19.51		
				22 13 16 00-0661 EA 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 202.71		58.26
				<i>For Work In Restricted Working Space, Add</i> 26.22		
				22 13 16 00-0662 EA 4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 341.10		67.74
				<i>For Work In Restricted Working Space, Add</i> 30.49		
22 13 16 00-0663				Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends		
				<small>(22 13 16 00-0539)</small>		
				22 13 16 00-0664 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 151.17		40.10
				<i>For Work In Restricted Working Space, Add</i> 18.09		
				22 13 16 00-0665 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 233.07		50.13
				<i>For Work In Restricted Working Space, Add</i> 22.96		
				22 13 16 00-0666 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 178.62		53.25
				<i>For Work In Restricted Working Space, Add</i> 23.98		
				22 13 16 00-0667 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 308.95		59.61
				<i>For Work In Restricted Working Space, Add</i> 26.83		
				22 13 16 00-0668 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 334.65		64.49
				<i>For Work In Restricted Working Space, Add</i> 29.06		
22 13 16 00-0669				Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends		
				<small>(22 13 16 00-0539)</small>		
				22 13 16 00-0670 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 125.70		45.12
				<i>For Work In Restricted Working Space, Add</i> 20.32		
				22 13 16 00-0671 EA 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 148.61		57.72
				<i>For Work In Restricted Working Space, Add</i> 26.01		
				22 13 16 00-0672 EA 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 224.09		77.64
				<i>For Work In Restricted Working Space, Add</i> 34.96		
				22 13 16 00-0673 EA 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 702.22		90.23
				<i>For Work In Restricted Working Space, Add</i> 40.65		
				22 13 16 00-0674 EA 6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 2,233.66		117.34
				<i>For Work In Restricted Working Space, Add</i> 52.84		
22 13 16 00-0675				Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends		
				<small>(22 13 16 00-0539)</small>		
				22 13 16 00-0676 EA 2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 266.87		51.49
				<i>For Work In Restricted Working Space, Add</i> 23.17		
				22 13 16 00-0677 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 422.93		67.74
				<i>For Work In Restricted Working Space, Add</i> 30.49		
				22 13 16 00-0678 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 709.93		73.98
				<i>For Work In Restricted Working Space, Add</i> 33.33		
				22 13 16 00-0679 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 650.08		83.86
				<i>For Work In Restricted Working Space, Add</i> 37.80		
				22 13 16 00-0680 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 1,499.99		103.79
				<i>For Work In Restricted Working Space, Add</i> 46.74		
22 13 16 00-0681				Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug		
				<small>(22 13 16 00-0539)</small>		
				22 13 16 00-0682 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 170.60		43.36
				<i>For Work In Restricted Working Space, Add</i> 19.51		
				22 13 16 00-0683 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 289.07		58.26
				<i>For Work In Restricted Working Space, Add</i> 26.22		
				22 13 16 00-0684 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 452.43		67.74
				<i>For Work In Restricted Working Space, Add</i> 30.49		
				22 13 16 00-0685 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 1,151.45		87.93
				<i>For Work In Restricted Working Space, Add</i> 39.63		
				22 13 16 00-0686 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 1,446.98		118.41
				<i>For Work In Restricted Working Space, Add</i> 53.35		
				22 13 16 00-0687 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 1,920.52		157.84
				<i>For Work In Restricted Working Space, Add</i> 71.13		
22 13 16 00-0688				Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug		
				<small>(22 13 16 00-0539)</small>		
				22 13 16 00-0689 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 52.13		22.63
				<i>For Work In Restricted Working Space, Add</i> 10.16		
				22 13 16 00-0690 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 72.82		28.86
				<i>For Work In Restricted Working Space, Add</i> 13.01		
				22 13 16 00-0691 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 103.58		38.75
				<i>For Work In Restricted Working Space, Add</i> 17.48		
				22 13 16 00-0692 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 174.24		45.12
				<i>For Work In Restricted Working Space, Add</i> 20.32		
				22 13 16 00-0693 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 380.38		58.67
				<i>For Work In Restricted Working Space, Add</i> 26.42		
				22 13 16 00-0694 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 831.33		78.99
				<i>For Work In Restricted Working Space, Add</i> 35.57		
				22 13 16 00-0695 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 1,513.92		105.28
				<i>For Work In Restricted Working Space, Add</i> 47.39		
22 13 16 00-0696				Polyvinyl Chloride (PVC) Couplings		
				<small>(22 13 16 00-0539)</small>		

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0697 EA 1-1/2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	39.29 10.16	22.63
22 13 16 00-0698 EA 2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	49.44 13.01	28.86
22 13 16 00-0699 EA 3" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	73.81 17.48	38.75
22 13 16 00-0700 EA 4" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	93.29 20.32	45.12
22 13 16 00-0701 EA 6" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	229.06 26.42	58.67
22 13 16 00-0702 EA 8" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	525.83 35.57	78.99
22 13 16 00-0703 EA 10" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	789.20 47.42	105.28
22 13 16 00-0704 Polyvinyl Chloride (PVC) Male Adapters (22 13 16 00-0539)		
22 13 16 00-0705 EA 1-1/2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	22.41 5.08	11.24
22 13 16 00-0706 EA 2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	35.13 6.50	14.49
22 13 16 00-0707 EA 3" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	66.47 8.74	19.37
22 13 16 00-0708 EA 4" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	119.45 10.16	22.63
22 13 16 00-0709 Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504) Note: In place piping.		
22 13 16 00-0710 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	9.93	
22 13 16 00-0711 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	10.93	
22 13 16 00-0712 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	13.90	
22 13 16 00-0713 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	18.76	
22 13 16 00-0714 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	26.81	
22 13 16 00-0715 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	35.76	
22 13 16 00-0716 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	43.72	
22 13 16 00-0717 Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16) Note: Aboveground installation.		
22 13 16 00-0718 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies (22 13 16 00-0717) Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0719 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	31.47 7.80	5.69
22 13 16 00-0720 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	34.94 8.63	6.78
22 13 16 00-0721 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	46.92 10.72	9.76
22 13 16 00-0722 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	53.72 11.91	10.57
22 13 16 00-0723 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	86.60 15.84	13.55
22 13 16 00-0724 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) (22 13 16 00-0717) Note: Excludes fittings or hangers.		
22 13 16 00-0725 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	11.70 2.54	5.69
22 13 16 00-0726 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	14.49 3.05	6.78
22 13 16 00-0727 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	23.53 4.37	9.76
22 13 16 00-0728 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	28.63 4.74	10.57
22 13 16 00-0729 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	44.33 5.46	12.15



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0730			Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) <small>(22 13 16 00-0717)</small>		
22 13 16 00-0731			Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <small>(22 13 16 00-0730)</small>		
	22 13 16 00-0732	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	47.61 10.16	22.63
	22 13 16 00-0733	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	62.95 13.01	28.86
	22 13 16 00-0734	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	118.71 17.48	38.75
	22 13 16 00-0735	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	186.18 20.32	45.12
	22 13 16 00-0736	EA	6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	530.12 26.42	58.67
22 13 16 00-0737			Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0730)</small>		
	22 13 16 00-0738	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	66.60 10.16	22.63
	22 13 16 00-0739	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	81.51 13.01	28.86
	22 13 16 00-0740	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	164.79 17.48	38.75
	22 13 16 00-0741	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	277.86 20.32	45.12
22 13 16 00-0742			Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <small>(22 13 16 00-0730)</small>		
	22 13 16 00-0743	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	50.18 10.16	22.63
	22 13 16 00-0744	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	61.15 13.01	28.86
	22 13 16 00-0745	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	109.26 17.48	38.75
	22 13 16 00-0746	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	168.73 20.32	45.12
	22 13 16 00-0747	EA	6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	548.52 26.42	58.67
22 13 16 00-0748			Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <small>(22 13 16 00-0730)</small>		
	22 13 16 00-0749	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	74.20 15.24	33.88
	22 13 16 00-0750	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	100.18 19.51	43.36
	22 13 16 00-0751	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	176.96 26.22	58.26
	22 13 16 00-0752	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	273.71 30.49	67.74
	22 13 16 00-0753	EA	6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,064.93 39.63	87.93
22 13 16 00-0754			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <small>(22 13 16 00-0730)</small>		
	22 13 16 00-0755	EA	2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	92.84 16.67	36.99
	22 13 16 00-0756	EA	2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	112.66 18.09	40.10
	22 13 16 00-0757	EA	2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	93.98 18.09	40.10
	22 13 16 00-0758	EA	3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	143.60 22.56	50.13
	22 13 16 00-0759	EA	3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	148.98 23.98	53.25
	22 13 16 00-0760	EA	4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	332.72 25.40	56.36
	22 13 16 00-0761	EA	4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	320.97 26.83	59.61
	22 13 16 00-0762	EA	4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	368.39 29.06	64.49
	22 13 16 00-0763	EA	6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,164.90 36.58	81.16
22 13 16 00-0764			Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <small>(22 13 16 00-0730)</small>		
	22 13 16 00-0765	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	138.78 20.32	45.12
	22 13 16 00-0766	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	190.36 26.01	57.72
	22 13 16 00-0767	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	407.68 34.96	77.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0768 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	602.13 40.65	90.23
22 13 16 00-0769 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees <small>(22 13 16 00-0730)</small>		
22 13 16 00-0770 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	157.80 23.17	51.49
22 13 16 00-0771 EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	240.52 27.64	61.37
22 13 16 00-0772 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	277.19 30.49	67.74
22 13 16 00-0773 EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	486.33 29.89	66.34
22 13 16 00-0774 EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	510.36 33.90	75.20
22 13 16 00-0775 Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <small>(22 13 16 00-0730)</small>		
22 13 16 00-0776 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	97.89 15.24	33.88
22 13 16 00-0777 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	113.37 19.51	43.36
22 13 16 00-0778 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	194.38 26.22	58.26
22 13 16 00-0779 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	300.95 30.49	67.74
22 13 16 00-0780 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	863.52 39.63	87.93
22 13 16 00-0781 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <small>(22 13 16 00-0730)</small>		
22 13 16 00-0782 EA 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	139.55 16.67	36.99
22 13 16 00-0783 EA 2" x 2" X 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	143.44 18.09	40.10
22 13 16 00-0784 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	163.09 23.98	53.25
22 13 16 00-0785 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	249.58 26.83	59.61
22 13 16 00-0786 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	283.99 29.06	64.49
22 13 16 00-0787 EA 6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	726.24 36.58	81.16
22 13 16 00-0788 Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <small>(22 13 16 00-0730)</small>		
22 13 16 00-0789 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	167.88 20.32	45.12
22 13 16 00-0790 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	215.51 26.01	57.72
22 13 16 00-0791 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	449.51 34.96	77.64
22 13 16 00-0792 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	810.03 40.65	90.23
22 13 16 00-0793 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes <small>(22 13 16 00-0730)</small>		
22 13 16 00-0794 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	194.86 23.17	51.49
22 13 16 00-0795 EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	327.01 27.64	61.37
22 13 16 00-0796 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	348.83 30.49	67.74
22 13 16 00-0797 EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	515.53 33.33	73.98
22 13 16 00-0798 EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	660.21 37.80	83.86
22 13 16 00-0799 Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0800 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	126.02 15.24	33.88
22 13 16 00-0801 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	162.77 19.51	43.36
22 13 16 00-0802 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	248.43 26.22	58.26
22 13 16 00-0803 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	407.26 27.34	60.75



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0804			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0805	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	139.44	40.10
			<i>For Work In Restricted Working Space, Add</i>	18.09	
22 13 16 00-0806	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	262.61	50.13
			<i>For Work In Restricted Working Space, Add</i>	22.56	
22 13 16 00-0807	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	197.07	53.25
			<i>For Work In Restricted Working Space, Add</i>	23.98	
22 13 16 00-0808	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	350.32	59.61
			<i>For Work In Restricted Working Space, Add</i>	26.83	
22 13 16 00-0809	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	379.39	64.49
			<i>For Work In Restricted Working Space, Add</i>	29.06	
22 13 16 00-0810			Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0811	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	263.65	57.72
			<i>For Work In Restricted Working Space, Add</i>	26.01	
22 13 16 00-0812	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	524.63	77.64
			<i>For Work In Restricted Working Space, Add</i>	34.96	
22 13 16 00-0813			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0814	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	219.61	51.49
			<i>For Work In Restricted Working Space, Add</i>	23.17	
22 13 16 00-0815	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	502.76	67.74
			<i>For Work In Restricted Working Space, Add</i>	30.49	
22 13 16 00-0816			Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <small>(22 13 16 00-0730)</small>		
22 13 16 00-0817	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	139.27	33.88
			<i>For Work In Restricted Working Space, Add</i>	15.24	
22 13 16 00-0818	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	176.02	43.36
			<i>For Work In Restricted Working Space, Add</i>	19.51	
22 13 16 00-0819	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	278.04	58.26
			<i>For Work In Restricted Working Space, Add</i>	26.22	
22 13 16 00-0820	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	457.99	67.74
			<i>For Work In Restricted Working Space, Add</i>	30.49	
22 13 16 00-0821			Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0730)</small>		
22 13 16 00-0822	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	64.20	22.63
			<i>For Work In Restricted Working Space, Add</i>	10.16	
22 13 16 00-0823	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	92.30	28.86
			<i>For Work In Restricted Working Space, Add</i>	13.01	
22 13 16 00-0824	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	133.47	38.75
			<i>For Work In Restricted Working Space, Add</i>	17.48	
22 13 16 00-0825	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	244.80	45.12
			<i>For Work In Restricted Working Space, Add</i>	20.32	
22 13 16 00-0826	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	574.16	58.67
			<i>For Work In Restricted Working Space, Add</i>	26.42	
22 13 16 00-0827			Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <small>(22 13 16 00-0730)</small>		
22 13 16 00-0828	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	44.33	22.63
			<i>For Work In Restricted Working Space, Add</i>	10.16	
22 13 16 00-0829	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	54.38	28.86
			<i>For Work In Restricted Working Space, Add</i>	13.01	
22 13 16 00-0830	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	88.24	38.75
			<i>For Work In Restricted Working Space, Add</i>	17.48	
22 13 16 00-0831	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	117.17	45.12
			<i>For Work In Restricted Working Space, Add</i>	20.32	
22 13 16 00-0832	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	332.37	58.67
			<i>For Work In Restricted Working Space, Add</i>	26.42	
22 13 16 00-0833			Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <small>(22 13 16 00-0730)</small>		
22 13 16 00-0834	EA		2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers.....	65.11	25.74
			<i>For Work In Restricted Working Space, Add</i>	11.58	
22 13 16 00-0835	EA		3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers.....	130.07	30.62
			<i>For Work In Restricted Working Space, Add</i>	13.82	
22 13 16 00-0836	EA		3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers.....	121.25	33.88
			<i>For Work In Restricted Working Space, Add</i>	15.24	
22 13 16 00-0837	EA		4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers.....	194.49	36.99
			<i>For Work In Restricted Working Space, Add</i>	16.67	
22 13 16 00-0838	EA		4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers.....	208.36	42.00
			<i>For Work In Restricted Working Space, Add</i>	18.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0839 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps (22 13 16 00-0730)		
22 13 16 00-0840 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	102.18	33.88
<i>For Work In Restricted Working Space, Add</i>	15.24	
22 13 16 00-0841 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	148.18	43.36
<i>For Work In Restricted Working Space, Add</i>	19.51	
22 13 16 00-0842 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	468.23	58.26
<i>For Work In Restricted Working Space, Add</i>	26.22	
22 13 16 00-0843 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	881.86	67.74
<i>For Work In Restricted Working Space, Add</i>	30.49	
22 13 16 00-0844 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges (22 13 16 00-0730)		
22 13 16 00-0845 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges.....	139.47	45.12
<i>For Work In Restricted Working Space, Add</i>	20.32	
22 13 16 00-0846 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges.....	130.27	42.00
<i>For Work In Restricted Working Space, Add</i>	18.90	
22 13 16 00-0847 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters (22 13 16 00-0730)		
22 13 16 00-0848 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	30.27	11.24
<i>For Work In Restricted Working Space, Add</i>	5.08	
22 13 16 00-0849 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	45.31	14.49
<i>For Work In Restricted Working Space, Add</i>	6.50	
22 13 16 00-0850 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	98.00	19.37
<i>For Work In Restricted Working Space, Add</i>	8.74	
22 13 16 00-0851 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	186.24	22.63
<i>For Work In Restricted Working Space, Add</i>	10.16	
22 13 16 00-0852 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings (22 13 16 00-0730)		
22 13 16 00-0853 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	49.63	25.74
<i>For Work In Restricted Working Space, Add</i>	11.58	
22 13 16 00-0854 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	105.52	30.62
<i>For Work In Restricted Working Space, Add</i>	13.82	
22 13 16 00-0855 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	88.59	33.88
<i>For Work In Restricted Working Space, Add</i>	15.24	
22 13 16 00-0856 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	192.58	36.99
<i>For Work In Restricted Working Space, Add</i>	16.67	
22 13 16 00-0857 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	142.41	42.00
<i>For Work In Restricted Working Space, Add</i>	18.90	
22 13 16 00-0858 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	381.23	46.53
<i>For Work In Restricted Working Space, Add</i>	20.96	
22 13 16 00-0859 Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings (22 13 16 00-0730)		
22 13 16 00-0860 EA 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling.....	123.33	22.63
<i>For Work In Restricted Working Space, Add</i>	10.16	
22 13 16 00-0861 EA 2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling.....	138.77	28.86
<i>For Work In Restricted Working Space, Add</i>	13.01	
22 13 16 00-0862 EA 3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling.....	159.64	38.75
<i>For Work In Restricted Working Space, Add</i>	17.48	
22 13 16 00-0863 EA 4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling.....	175.08	45.12
<i>For Work In Restricted Working Space, Add</i>	20.32	
22 13 16 00-0864 Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe (22 13 16 00-0717)		
Note: In place piping.		
22 13 16 00-0865 EA 1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	9.93	
22 13 16 00-0866 EA 2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	10.93	
22 13 16 00-0867 EA 3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	13.90	
22 13 16 00-0868 EA 4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	18.76	
22 13 16 00-0869 EA 6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	26.81	
22 13 16 00-0870 Elastomeric Flexible Pipe Couplings (22 13 16)		
22 13 16 00-0871 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings (22 13 16 00-0870)		
Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0872 EA 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125).....	16.21	5.88
<i>For Work In Restricted Working Space, Add</i>	3.53	
22 13 16 00-0873 EA 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150).....	17.43	6.25
<i>For Work In Restricted Working Space, Add</i>	3.75	
22 13 16 00-0874 EA 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	18.34	6.63
<i>For Work In Restricted Working Space, Add</i>	3.97	
22 13 16 00-0875 EA 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	20.87	6.99
<i>For Work In Restricted Working Space, Add</i>	4.19	
22 13 16 00-0876 EA 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	23.34	7.36
<i>For Work In Restricted Working Space, Add</i>	4.42	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				22 13 16 00-0877 EA 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55) .....28.97		7.72
				<i>For Work In Restricted Working Space, Add</i> .....4.64		
				22 13 16 00-0878 EA 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66) .....34.64		8.09
				<i>For Work In Restricted Working Space, Add</i> .....4.86		
				22 13 16 00-0879 EA 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88) .....46.03		8.83
				<i>For Work In Restricted Working Space, Add</i> .....5.30		
				22 13 16 00-0880 EA 10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010) .....60.04		10.31
				<i>For Work In Restricted Working Space, Add</i> .....6.18		
22 13 16 00-0881				Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings ^(22 13 16 00-0870)		
				Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
				22 13 16 00-0882 EA 1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125) .....17.25		6.25
				<i>For Work In Restricted Working Space, Add</i> .....3.75		
				22 13 16 00-0883 EA 2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215) .....18.63		6.63
				<i>For Work In Restricted Working Space, Add</i> .....3.97		
				22 13 16 00-0884 EA 3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315) .....22.29		6.99
				<i>For Work In Restricted Working Space, Add</i> .....4.19		
				22 13 16 00-0885 EA 3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32) .....20.35		6.99
				<i>For Work In Restricted Working Space, Add</i> .....4.19		
				22 13 16 00-0886 EA 4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415) .....26.84		7.36
				<i>For Work In Restricted Working Space, Add</i> .....4.42		
				22 13 16 00-0887 EA 4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42) .....25.85		7.36
				<i>For Work In Restricted Working Space, Add</i> .....4.42		
				22 13 16 00-0888 EA 4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43) .....24.01		7.36
				<i>For Work In Restricted Working Space, Add</i> .....4.42		
				22 13 16 00-0889 EA 5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53) .....33.30		7.72
				<i>For Work In Restricted Working Space, Add</i> .....4.64		
				22 13 16 00-0890 EA 5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54) .....30.48		7.72
				<i>For Work In Restricted Working Space, Add</i> .....4.64		
				22 13 16 00-0891 EA 6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63) .....40.46		8.09
				<i>For Work In Restricted Working Space, Add</i> .....4.86		
				22 13 16 00-0892 EA 6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64) .....36.24		8.09
				<i>For Work In Restricted Working Space, Add</i> .....4.86		
				22 13 16 00-0893 EA 6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65) .....37.42		8.09
				<i>For Work In Restricted Working Space, Add</i> .....4.86		
				22 13 16 00-0894 EA 8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84) .....72.85		14.72
				<i>For Work In Restricted Working Space, Add</i> .....8.83		
				22 13 16 00-0895 EA 8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86) .....61.15		14.72
				<i>For Work In Restricted Working Space, Add</i> .....8.83		
				22 13 16 00-0896 EA 10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8) .....76.31		16.56
				<i>For Work In Restricted Working Space, Add</i> .....9.93		
22 13 16 00-0897				Elastomeric Flexible Pipe Caps (Fernco QC) ^(22 13 16)		
				Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.		
				22 13 16 00-0898 EA 1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101) .....63.57		39.73
				22 13 16 00-0899 EA 2" Elastomeric Flexible Pipe Cap (Fernco QC-102) .....68.06		42.24
				22 13 16 00-0900 EA 3" Elastomeric Flexible Pipe Cap (Fernco QC-103) .....78.63		48.42
				22 13 16 00-0901 EA 4" Elastomeric Flexible Pipe Cap (Fernco QC-104) .....103.84		64.01
				22 13 16 00-0902 EA 5" Elastomeric Flexible Pipe Cap (Fernco QC-105) .....124.36		76.52
				22 13 16 00-0903 EA 6" Elastomeric Flexible Pipe Cap (Fernco QC-106) .....143.78		88.30
				22 13 16 00-0904 EA 8" Elastomeric Flexible Pipe Cap (Fernco QC-108) .....190.66		111.84
				22 13 16 00-0905 EA 10" Elastomeric Flexible Pipe Cap (Fernco QC-110) .....230.42		125.08
				22 13 16 00-0906 EA 12" Elastomeric Flexible Pipe Cap (Fernco QC-112) .....285.05		139.07
22 13 16 00-0907				Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) ^(22 13 16)		
				22 13 16 00-0908 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....110.79		30.49
				22 13 16 00-0909 EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....117.56		33.88
				22 13 16 00-0910 EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....173.48		44.03
				22 13 16 00-0911 EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....203.05		50.81
				22 13 16 00-0912 EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....236.15		57.58
				22 13 16 00-0913 EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....384.93		64.36
22 13 16 00-0914				Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) ^(22 13 16)		
				22 13 16 00-0915 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....216.48		30.49
				22 13 16 00-0916 EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....223.25		33.88
				22 13 16 00-0917 EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....266.83		44.03
				22 13 16 00-0918 EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....332.20		50.81
				22 13 16 00-0919 EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....449.42		57.58
				22 13 16 00-0920 EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....462.97		64.36
22 13 16 00-0921				Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) ^(22 13 16)		
				Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0922	EA		1-1/2" Cast Iron Vandal Proof Hooded Vent Cap.....	402.35	30.49
22 13 16 00-0923	EA		2" Cast Iron Vandal Proof Hooded Vent Cap.....	409.12	33.88
22 13 16 00-0924	EA		3" Cast Iron Vandal Proof Hooded Vent Cap.....	472.12	44.03
22 13 16 00-0925	EA		4" Cast Iron Vandal Proof Hooded Vent Cap.....	531.90	50.81
22 13 16 00-0926	EA		5" Cast Iron Vandal Proof Hooded Vent Cap.....	620.13	57.58
22 13 16 00-0927	EA		6" Cast Iron Vandal Proof Hooded Vent Cap.....	678.13	64.36
22 13 19 Sanitary Waste Piping Specialties (22 13)					
22 13 19 13 Sanitary Drains (22 13 19)					
22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)					
22 13 19 13-0002	EA		Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet.....	886.10	145.65
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0003	EA		Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....	974.50	163.26
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0004	EA		Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....	956.15	180.60
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0005	EA		Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....	993.35	199.30
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0006	EA		Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet.....	893.91	163.26
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0007	EA		Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet.....	928.74	180.60
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0008	EA		Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet.....	965.94	199.30
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0009	EA		Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet.....	1,458.61	163.26
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0010	EA		Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet.....	1,493.44	180.60
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0011	EA		Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet.....	1,530.64	199.30
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0012 EA Bronze Top, 9" Round Top Floor Drain With 2" Outlet.....	1,376.37	163.26
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0013 EA Bronze Top, 9" Round Top Floor Drain With 3" Outlet.....	1,411.01	180.60
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0014 EA Bronze Top, 9" Round Top Floor Drain With 4" Outlet.....	1,448.40	199.30
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0015 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet	1,507.80	163.13
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0016 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet	1,542.59	180.60
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0017 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet	1,579.98	199.30
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0018 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	2,352.10	163.13
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0019 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	2,386.89	180.60
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0020	EA		Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	2,424.28	199.30
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0021	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	2,239.71	163.13
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0022	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	2,274.50	180.60
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0023	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	2,311.89	199.30
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0024			Square Or Rectangular Top Drains <small>(22 13 19 13)</small>		
22 13 19 13-0025	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,050.01	163.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0026	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,085.18	180.74
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0027	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,122.19	199.30
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0028	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,132.25	163.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0029	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,167.42	180.74
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0030	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,204.43	199.30
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0031	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,494.09	163.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0032	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,529.26	180.74
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0033	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,566.27	199.30
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	989.70 105.00 22.50 11.00	163.13
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,024.87 105.00 22.50 11.00	180.74
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,061.88 105.00 22.50 11.00	199.30
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,093.87 105.00 22.50 11.00	163.13
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,129.04 105.00 22.50 11.00	180.74
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,166.05 105.00 22.50 11.00	199.30
22 13 19 13-0040	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,387.18 105.00 22.50 11.00	163.13
22 13 19 13-0041	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,422.35 105.00 22.50 11.00	180.74
22 13 19 13-0042	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,459.36 105.00 22.50 11.00	199.30
22 13 19 13-0043	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,538.60 48.50 76.00 318.00	180.74
22 13 19 13-0044	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,575.61 48.50 76.00 318.00	199.30
22 13 19 13-0045	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,432.25 48.50 76.00 318.00	180.74
22 13 19 13-0046	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,469.26 48.50 76.00 318.00	199.30
22 13 19 13-0047	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,325.34 48.50 76.00 318.00	180.74
22 13 19 13-0048	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,362.35 48.50 76.00 318.00	199.30
22 13 19 13-0049	EA		5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,516.02 22.50 11.00 120.94	163.13
22 13 19 13-0050	EA		5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,551.19 22.50 11.00 120.94	180.74
22 13 19 13-0051	EA		5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,588.20 22.50 11.00 120.94	199.30
22 13 19 13-0052	EA		5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,940.92 22.50 11.00 120.94	163.13
22 13 19 13-0053	EA		5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,976.09 22.50 11.00 120.94	180.74
22 13 19 13-0054	EA		5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	2,013.10 22.50 11.00 120.94	199.30

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0055 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,039.60	163.13
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0056 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,074.77	180.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0057 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,111.78	199.30
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0058 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,804.41	163.13
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0059 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,839.58	180.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0060 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,876.59	199.30
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0061 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,428.30	163.13
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0062 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,463.47	180.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0063 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,500.48	199.30
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0064 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,790.15	163.13
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0065 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,825.32	180.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0066 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,862.33	199.30
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0067 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,888.83	163.13
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0068 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,924.00	180.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0069 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,961.01	199.30
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0070 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top.....	2,511.10	163.13
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0071 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top.....	2,546.27	180.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0072 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top.....	2,583.28	199.30
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0073 Funnel Type Floor Drains (22 13 19 13)		
22 13 19 13-0074 EA 7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top.....	1,428.99	145.65
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0075 EA 7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top.....	1,463.94	163.13
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0076	EA		7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,498.73 105.00 -19.50 11.00	180.60
22 13 19 13-0077	EA		7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,536.12 105.00 -19.50 11.00	199.30
22 13 19 13-0078	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	2,080.72 105.00 -19.50 11.00	163.13
22 13 19 13-0079	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	2,115.51 105.00 -19.50 11.00	180.60
22 13 19 13-0080	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	2,152.90 105.00 -19.50 11.00	199.30
22 13 19 13-0081	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,973.81 105.00 -19.50 11.00	163.13
22 13 19 13-0082	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	2,008.60 105.00 -19.50 11.00	180.60
22 13 19 13-0083	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	2,045.99 105.00 -19.50 11.00	199.30
22 13 19 13-0084 Floor Drain With Sediment Bucket Bottom Outlet <small>(22 13 19 13)</small>					
22 13 19 13-0085	EA		12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,996.86 33.50 30.50 247.00	145.65
22 13 19 13-0086	EA		12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,031.93 33.50 30.50 247.00	163.13
22 13 19 13-0087	EA		12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,066.72 33.50 30.50 247.00	180.60
22 13 19 13-0088	EA		12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,104.11 33.50 30.50 247.00	199.30
22 13 19 13-0089	EA		12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,142.67 33.50 30.50 247.00	218.54
22 13 19 13-0090	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,240.27 29.50 31.00 77.50 273.75	163.13
22 13 19 13-0091	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,275.44 29.50 31.00 77.50 273.75	180.74
22 13 19 13-0092	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,312.45 29.50 31.00 77.50 273.75	199.30
22 13 19 13-0093	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,351.01 29.50 31.00 77.50 273.75	218.54
22 13 19 13-0094	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,003.96 29.50 31.00 77.50 273.75	163.13



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0095	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Gate.....	2,039.13	180.74
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0096	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Gate.....	2,076.14	199.30
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0097	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Gate.....	2,114.70	218.54
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0098	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Gate.....	3,026.45	163.13
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0099	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Gate.....	3,061.62	180.74
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0100	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Gate.....	3,098.63	199.30
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0101	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Gate.....	3,137.19	218.54
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0102			Other Drains (22 13 19 13)		
22 13 19 13-0103			Shower Drains (22 13 19 13-0102)		
22 13 19 13-0104	EA		4-1/4" Stainless Steel Shower Drain Strainer.....	54.82	14.72
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0105	EA		4-1/4" Brass Shower Drain Strainer.....	60.55	14.72
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0106	EA		4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....	127.74	29.43
			Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.		
22 13 19 13-0107	EA		4" Chrome Finish, Threaded Brass Shower Drain And Gasket.....	160.63	29.43
			Note: For 2" pipe. Kohler K-9132.		
22 13 19 13-0108			Acid Resistant Floor Drains (22 13 19 13-0102)		
22 13 19 13-0109	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,439.83	145.65
			For Galvanized Cast Iron Parts, Add	87.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
22 13 19 13-0110	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	1,474.90	163.13
			For Galvanized Cast Iron Parts, Add	87.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
22 13 19 13-0111	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,509.69	180.60
			For Galvanized Cast Iron Parts, Add	87.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
22 13 19 13-0112			Rotary And Lever Drains (22 13 19 13-0102)		
22 13 19 13-0113	EA		Lever Drain, 1-1/2" Drain, 3" Sink Opening.....	294.70	98.23
22 13 19 13-0114	EA		Lever Drain, 2" Drain, 3" Sink Opening.....	315.02	108.39
22 13 19 13-0115	EA		Lever Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	294.70	98.23
22 13 19 13-0116	EA		Lever Drain, 2" Drain, 3-1/2" Sink Opening.....	315.02	108.39
22 13 19 13-0117	EA		Twist Drain, 1-1/2" Drain, 3" Sink Opening.....	294.70	98.23
22 13 19 13-0118	EA		Twist Drain, 2" Drain, 3" Sink Opening.....	315.02	108.39
22 13 19 13-0119	EA		Twist Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	294.70	98.23
22 13 19 13-0120	EA		Twist Drain, 2" Drain, 3-1/2" Sink Opening.....	315.02	108.39
22 13 19 13-0121	EA		Rotary Twist Drain, 1-1/2"-2" Drain, 3-1/2" Sink Opening (Fisher 16100).....	390.83	108.39



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0122 Floor Receptor <small>(22 13 19 13)</small>		
22 13 19 13-0123 9" Diameter Round Shallow Receptor <small>(22 13 19 13-0122)</small>		
Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection	1,762.96	163.26
<i>For Flange With Seepage Holes, Add</i> 58.50		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i> 97.00		
<i>For Trap Primer Connection, Add</i> 38.00		
<i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i> 36.00		
<i>For Vandal Proof Secured Grate, Add</i> 33.50		
<i>For White Acid Resistant Bucket, Add</i> 47.00		
<i>For Stainless Steel Liner For Bucket, Add</i> 62.50		
22 13 19 13-0125 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection	1,798.29	180.87
<i>For Flange With Seepage Holes, Add</i> 58.50		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i> 97.00		
<i>For Trap Primer Connection, Add</i> 38.00		
<i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i> 36.00		
<i>For Vandal Proof Secured Grate, Add</i> 33.50		
<i>For White Acid Resistant Bucket, Add</i> 47.00		
<i>For Stainless Steel Liner For Bucket, Add</i> 62.50		
22 13 19 13-0126 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection	1,834.92	199.30
<i>For Flange With Seepage Holes, Add</i> 58.50		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i> 97.00		
<i>For Trap Primer Connection, Add</i> 38.00		
<i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i> 36.00		
<i>For Vandal Proof Secured Grate, Add</i> 33.50		
<i>For White Acid Resistant Bucket, Add</i> 47.00		
<i>For Stainless Steel Liner For Bucket, Add</i> 62.50		
22 13 19 13-0127 Square Top Floor Receptors <small>(22 13 19 13-0122)</small>		
Note: With acid resistant coating.		
22 13 19 13-0128 EA 8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top	2,067.70	145.65
<i>For Flange With Seepage Holes, Add</i> 37.50		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i> 69.00		
<i>For Trap Primer Connection, Add</i> 39.50		
<i>For Full Grate With 2" Square Center Opening, Add</i> 36.00		
<i>For Vandal Proof Secured Grate, Add</i> 15.50		
<i>For White Acid Resistant Bucket, Add</i> 88.00		
<i>For Stainless Steel Liner For Bucket, Add</i> 97.00		
22 13 19 13-0129 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top	2,102.80	163.26
<i>For Flange With Seepage Holes, Add</i> 37.50		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i> 69.00		
<i>For Trap Primer Connection, Add</i> 39.50		
<i>For Full Grate With 2" Square Center Opening, Add</i> 36.00		
<i>For Vandal Proof Secured Grate, Add</i> 15.50		
<i>For White Acid Resistant Bucket, Add</i> 88.00		
<i>For Stainless Steel Liner For Bucket, Add</i> 97.00		
22 13 19 13-0130 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top	2,137.44	180.60
<i>For Flange With Seepage Holes, Add</i> 37.50		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i> 69.00		
<i>For Trap Primer Connection, Add</i> 39.50		
<i>For Full Grate With 2" Square Center Opening, Add</i> 36.00		
<i>For Vandal Proof Secured Grate, Add</i> 15.50		
<i>For White Acid Resistant Bucket, Add</i> 88.00		
<i>For Stainless Steel Liner For Bucket, Add</i> 97.00		
22 13 19 13-0131 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top	2,174.83	199.30
<i>For Flange With Seepage Holes, Add</i> 37.50		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i> 69.00		
<i>For Trap Primer Connection, Add</i> 39.50		
<i>For Full Grate With 2" Square Center Opening, Add</i> 36.00		
<i>For Vandal Proof Secured Grate, Add</i> 15.50		
<i>For White Acid Resistant Bucket, Add</i> 88.00		
<i>For Stainless Steel Liner For Bucket, Add</i> 97.00		
22 13 19 13-0132 Floor Drain Accessories <small>(22 13 19 13)</small>		
22 13 19 13-0133 EA 3" Trap Guard Floor Drain Insert (ProVent TG3H).....	115.13	16.94
Note: Prevents emission of sewer gases.		
22 13 19 13-0134 EA 2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22)	94.82	16.94
Note: Prevents emission of sewer gases.		
22 13 19 13-0135 EA 3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33)	102.94	16.94
Note: Prevents emission of sewer gases.		
22 13 19 13-0136 EA 3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....	123.25	16.94
Note: Prevents emission of sewer gases.		
22 13 19 13-0137 EA 3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....	111.07	16.94
Note: Prevents emission of sewer gases.		
22 13 19 13-0138 EA 2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02)	155.98	16.94
Note: Prevents emission of sewer gases.		
22 13 19 13-0139 EA 3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03)	172.32	16.94
Note: Prevents emission of sewer gases.		
22 13 19 13-0140 EA 4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04)	212.89	16.94
Note: Prevents emission of sewer gases.		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 19 26 Grease Removal Devices (22 13 19)

22 13 19 26-0001	EA	Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002	EA	Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001) Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19 26-0003	EA	7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60102H.	1,317.39	101.62
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,361.63	
22 13 19 26-0004	EA	10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60103H.	1,534.45	228.64
		<i>For Flange And Clamp Device, Add</i>	412.59	
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,442.08	
22 13 19 26-0005	EA	15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60104H.	2,159.25	254.04
		<i>For Flange And Clamp Device, Add</i>	429.52	
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,575.96	
22 13 19 26-0006	EA	20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60105H.	2,600.88	279.44
		<i>For Flange And Clamp Device, Add</i>	446.46	
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,704.40	
22 13 19 26-0007	EA	25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60106H.	2,909.87	304.85
		<i>For Flange And Clamp Device, Add</i>	493.79	
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,778.13	
22 13 19 26-0008	EA	35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60107H.	3,568.54	355.66
		<i>For Flange And Clamp Device, Add</i>	538.86	
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,961.41	
22 13 19 26-0009	EA	50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60108H.	4,639.90	406.46
		<i>For Flange And Clamp Device, Add</i>	613.70	
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,097.66	
22 13 19 26-0010	EA	75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60109H.	9,031.58	457.27
		<i>For Flange And Clamp Device, Add</i>	848.85	
22 13 19 26-0011	EA	100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60110H.	10,191.60	537.74
		<i>For Flange And Clamp Device, Add</i>	966.49	
22 13 19 26-0012	EA	150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60213A.	12,614.28	860.38
		<i>For Flange And Clamp Device, Add</i>	1,341.59	
22 13 19 26-0013	EA	200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60214A.	18,069.30	1,075.48
		<i>For Flange And Clamp Device, Add</i>	1,614.27	
22 13 19 26-0014	EA	250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60215A.	21,085.49	1,290.57
		<i>For Flange And Clamp Device, Add</i>	2,070.62	
22 13 19 26-0015	EA	350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60216A.	27,363.06	1,505.67
		<i>For Flange And Clamp Device, Add</i>	2,451.78	
22 13 19 26-0016	EA	500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60217A.	35,355.17	1,720.76
		<i>For Flange And Clamp Device, Add</i>	2,868.46	
22 13 19 26-0017	EA	Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001) Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018	EA	20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60115A.	3,712.57	279.44
22 13 19 26-0019	EA	35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60117A.	4,774.98	355.66
22 13 19 26-0020	EA	50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Smith 8150.	7,828.99	406.46
22 13 19 26-0021	EA	Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022	EA	Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023	EA	7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60102-SA.	3,251.62	101.62
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,361.63	
22 13 19 26-0024	EA	10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60103-SA.	3,820.99	228.64
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,442.08	
22 13 19 26-0025	EA	15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60104-SA.	4,085.06	254.04
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,575.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0026 EA 20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	4,977.26 <i>1,704.40</i>	279.44
22 13 19 26-0027 EA 25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	5,991.58 <i>1,778.13</i>	304.85
22 13 19 26-0028 EA 35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	6,206.00 <i>1,961.41</i>	355.66
22 13 19 26-0029 EA 50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	7,084.35 <i>2,097.66</i>	406.46
22 13 19 26-0030 Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0021)</small> Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031 EA 35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor	8,305.85	355.66
22 13 19 26-0032 Automatic Cleaning Stainless Steel Grease Interceptor <small>(22 13 19 26)</small>		
22 13 19 26-0033 EA 20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).	7,131.67	279.44
22 13 19 26-0034 EA 25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).	8,279.29	304.85
22 13 19 26-0035 EA 35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35)	7,121.90	355.66
22 13 19 26-0036 Precast Concrete Grease Interceptor <small>(22 13 19 26)</small> Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037 EA 1,000 Gallon Pre-Cast Grease Interceptor	6,899.12	471.61
22 13 19 26-0038 EA 1,250 Gallon Pre-Cast Grease Interceptor	7,899.12	471.61
22 13 19 26-0039 EA 1,500 Gallon Pre-Cast Grease Interceptor	8,965.05	539.16
22 13 19 26-0040 EA 2,000 Gallon Pre-Cast Grease Interceptor	10,189.82	761.42
22 13 19 26-0041 EA 2,500 Gallon Pre-Cast Grease Interceptor	11,459.31	1,024.43
22 13 19 26-0042 EA 4,000 Gallon Pre-Cast Grease Interceptor	17,203.27	1,347.82
22 13 19 26-0043 EA 5,000 Gallon Pre-Cast Grease Interceptor	22,046.67	2,210.22
22 13 19 26-0044 Coated Steel Manual Oil Interceptor <small>(22 13 19 26)</small> Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045 EA 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	5,159.82	387.03
22 13 19 26-0046 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	6,937.56	459.88
22 13 19 26-0047 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	8,402.45	565.84
22 13 19 26-0048 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	9,125.43	612.92
22 13 19 26-0049 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	10,938.74	668.84
22 13 19 26-0050 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	14,388.55	735.80
22 13 19 26-0051 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	24,064.75	846.80
22 13 19 26-0052 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	26,335.41	1,041.90
22 13 19 26-0053 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	32,301.85	1,129.29
22 13 19 26-0054 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	45,156.86	1,354.87
22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	52,069.79	1,456.49
22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	65,577.02	1,736.95
22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	79,036.78	1,423.30
22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	93,629.56	1,693.60
22 13 19 33 Backwater Valves <small>(22 13 19)</small>		
22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves <small>(22 13 19 33)</small>		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve	359.03	38.88
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve	373.93	48.91
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve	535.89	65.03
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve	1,380.37	84.93
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve	1,692.52	111.77
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve	4,790.16	137.89
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve	5,439.42	178.84
22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve <small>(22 13 19 33)</small> Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	905.46	92.71
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,356.24	112.46
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,682.86	144.98
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,308.21	154.30
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	3,174.96	182.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve ^(22 13 19 33)		
Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,339.11	146.74
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,411.73	195.10
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	3,463.35	228.53
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	3,503.07	254.77
22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve ^(22 13 19 33)		
Note: Oatey.		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900).....	152.72	48.91
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....	185.10	65.03
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....	500.83	84.93
22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves ^(22 13 19 33)		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	354.31	97.82
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	471.78	130.07
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	784.54	169.84
Note: Includes valve body, flapper assembly and collar.		
22 13 19 36 Air-Admittance Valves ^(22 13 19)		
22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent ^(22 13 19 36)		
22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	205.83	18.97
22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	244.50	18.97
22 13 23 Sanitary Waste Interceptors ^(22 13)		
22 13 23 00-0001 Sediment Bucket Solids Interceptors ^(22 13 23)		
22 13 23 00-0002 EA 1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zum 1180).....	1,282.83	191.85
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zum 1184).....	1,284.37	191.85
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0004 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,787.75	191.85
Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0).....	1,787.75	191.85
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0006 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,901.70	191.85
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap ^(22 13 23)		
22 13 23 00-0008 EA 1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	353.84	65.63
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0009 EA 2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	362.23	69.90
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0010 Sediment Strainers ^(22 13 23)		
22 13 23 00-0011 EA 2" Strainer, Pump Suction Side.....	199.25	89.54
22 13 29 Sanitary Sewerage Pumps ^(22 13)		
Note: Includes extra set of gaskets, bearings and seals.		
22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps ^(22 13 29)		
22 13 29 13-0001 Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-DEMING Series 4500) ^(22 13 29 13)		
Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.		
22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps ^(22 13 29 13-0001)		
22 13 29 13-0003 EA 1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,772.35	1,625.30
22 13 29 13-0004 EA 3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,988.81	1,625.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 13-0005 EA 1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	7,205.27	1,625.30
22 13 29 13-0006 EA 1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM	7,411.74	1,625.30
22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0008 EA 3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,371.78	1,625.30
22 13 29 13-0009 EA 1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,455.04	1,625.30
22 13 29 13-0010 EA 2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,513.32	1,625.30
22 13 29 13-0011 EA 3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,912.94	1,625.30
22 13 29 13-0012 EA 5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,304.24	1,625.30
22 13 29 13-0013 EA 7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,903.67	1,625.30
22 13 29 13-0014 EA 10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	9,503.11	1,625.30
22 13 29 13-0015 EA 15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	11,177.79	2,162.92
22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0017 EA 2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,788.94	1,625.30
22 13 29 13-0018 EA 3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,788.94	1,625.30
22 13 29 13-0019 EA 5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,933.19	1,625.30
22 13 29 13-0020 EA 7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	9,052.40	1,625.30
22 13 29 13-0021 EA 10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	9,248.73	1,625.30
22 13 29 13-0022 EA 15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	11,246.85	2,162.92
22 13 29 13-0023 EA 20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	11,746.38	2,162.92
22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)		
22 13 29 13-0025 EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026 EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027 EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028 EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029 EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	
22 13 29 13-0030 Float Switches (22 13 29 13-0001)		
Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031 EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps	489.13	
22 13 29 13-0032 EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps	513.82	
22 13 29 13-0033 EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps	525.22	
22 13 29 13-0034 Square Or Round Steel Sump Covers (22 13 29 13-0001)		
22 13 29 13-0035 EA 24" Steel Sump Covers, Square Or Round.....	882.08	54.19
22 13 29 13-0036 EA 30" Steel Sump Covers, Square Or Round.....	976.65	60.97
22 13 29 13-0037 EA 36" Steel Sump Covers, Square Or Round.....	1,354.46	81.29
22 13 29 13-0038 EA 40" Steel Sump Covers, Square Or Round.....	1,960.37	94.84
22 13 29 13-0039 EA 42" Steel Sump Covers, Square Or Round.....	2,100.83	98.23
22 13 29 13-0040 EA 48" Steel Sump Covers, Square Or Round.....	2,245.71	101.62
22 13 29 13-0041 EA 54" Steel Sump Covers, Square Or Round.....	2,859.03	121.94
22 13 29 13-0042 EA 60" Steel Sump Covers, Square Or Round.....	3,866.10	135.49
22 13 29 13-0043 EA 72" Steel Sump Covers, Square Or Round.....	4,902.58	169.36
22 13 29 13-0044 EA 84" Steel Sump Covers, Square Or Round.....	6,225.56	186.29
22 13 29 16 Submersible Sewerage Pumps (22 13 29)		
22 13 29 16-0001 Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)		
22 13 29 16-0002 Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)		
Note: Includes 25' cord.		
22 13 29 16-0003 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,310.07	98.60
22 13 29 16-0004 EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,390.18	98.60
22 13 29 16-0005 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,365.53	98.60
22 13 29 16-0006 EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,483.64	98.60
22 13 29 16-0007 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,483.64	98.60
22 13 29 16-0008 EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,588.04	123.24
22 13 29 16-0009 EA 1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,692.79	123.24
22 13 29 16-0010 EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,706.15	123.24
22 13 29 16-0011 Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)		
Note: Includes 20' cord.		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0012	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,332.67	98.60
22 13 29 16-0013	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,447.70	98.60
22 13 29 16-0014	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,393.26	98.60
22 13 29 16-0015	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,504.18	98.60
22 13 29 16-0016	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,603.81	98.60
22 13 29 16-0017	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,524.36	123.24
22 13 29 16-0018	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,643.50	123.24
22 13 29 16-0019	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,642.47	123.24
22 13 29 16-0020	EA	1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,937.16	198.67
22 13 29 16-0021	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,037.81	198.67
22 13 29 16-0022	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,055.27	198.67
22 13 29 16-0023	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,107.94	242.82
22 13 29 16-0024	EA	2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,222.97	242.82
22 13 29 16-0025	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,226.05	242.82
22 13 29 16-0026		Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)		
		Note: Includes 20' cord.		
22 13 29 16-0027	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,562.73	98.60
22 13 29 16-0028	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,757.87	98.60
22 13 29 16-0029	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	1,743.12	123.24
22 13 29 16-0030	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	1,861.23	123.24
22 13 29 16-0031	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,172.35	198.67
22 13 29 16-0032	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,290.46	198.67
22 13 29 16-0033	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,344.16	242.82
22 13 29 16-0034	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,462.27	242.82
22 13 29 16-0035		Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16)		
		Note: Includes 25' of cord with pump.		
22 13 29 16-0036	EA	1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,944.49	123.24
22 13 29 16-0037	EA	1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,214.53	182.55
22 13 29 16-0038	EA	2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,533.89	223.11
22 13 29 16-0039	EA	3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,764.18	270.44
22 13 29 16-0040	EA	5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,353.72	317.76
22 13 29 16-0041	EA	7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,985.31	365.09
22 13 29 16-0042		Submersible Sewage Pumps, Explosion Proof (22 13 29 16)		
		Note: Includes 25' of cord with pump.		
22 13 29 16-0043	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,436.67	441.62
22 13 29 16-0044	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,957.58	441.62
22 13 29 16-0045	EA	1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,957.58	441.62
22 13 29 16-0046	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,822.91	588.82
22 13 29 16-0047	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,343.83	588.82
22 13 29 16-0048	EA	1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,343.83	588.82
22 13 29 16-0049	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,307.96	736.03



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0050	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	6,828.87	736.03
22 13 29 16-0051	EA	2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	6,828.87	736.03
22 13 29 16-0052	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,700.18	883.24
22 13 29 16-0053	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,221.10	883.24
22 13 29 16-0054	EA	3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,221.10	883.24
22 13 29 16-0055	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,538.57	1,030.45
22 13 29 16-0056	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,059.48	1,030.45
22 13 29 16-0057	EA	5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,059.48	1,030.45
22 13 29 16-0058	EA	7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,908.83	1,177.66
22 13 29 16-0059	EA	7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,908.83	1,177.66
22 13 29 16-0060		Submersible Sewage Pump Accessories <small>(22 13 29 16)</small>		
22 13 29 16-0061	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn, warning light and alarm float switch.	666.37	110.93
22 13 29 16-0062	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn, warning light, and alarm float switch.	685.99	110.93
22 13 29 16-0063	EA	Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches.	1,308.48	147.91
22 13 29 16-0064	EA	Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn and warning light. Control float switches not included.	1,810.90	147.91
22 13 29 16-0065	EA	Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	3,958.50	147.91
22 13 29 16-0066	EA	Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	4,137.50	147.91
22 13 29 16-0067	EA	Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	6,582.47	184.87
22 13 29 16-0068	EA	Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	5,564.21	184.87
22 13 29 16-0069	EA	Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn, warning light, and three 20' float switches.	1,463.88	184.87
22 13 29 16-0070	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn, warning light, and three 20' float switches.	1,601.26	184.87
22 13 29 16-0071	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn, warning light, and three 20' float switches.	1,541.40	184.87
22 13 29 16-0072	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn, warning light, and three 20' float switches.	1,665.21	184.87
22 13 29 16-0073	EA	Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn and warning light. Float switches not included..	2,771.04	184.87
22 13 29 16-0074	EA	Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure..... Note: Includes alarm horn, warning light and 15' tethered float.	541.41	73.95
22 13 29 16-0075	EA	Variable Level (Clamp Type) Float Switch With 15' Cord..... Note: Not for use with Intrinsically Safe Control Systems.	117.13	36.98
22 13 29 16-0076	EA	Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only.....	134.16	36.98
22 13 29 16-0077	EA	Variable Level (Adjustable Weight Type) Float Switch With 25' Cord..... Note: Not for use with Intrinsically Safe Control Systems.	143.50	36.98
22 13 29 16-0078	EA	Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only.....	147.81	36.98
22 13 29 16-0079	EA	Float Switch Tree With (3) 15' Floats..... Note: Not for use with Intrinsically Safe Control Systems.	383.27	36.98
22 13 29 16-0080	EA	Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only.....	422.18	36.98
22 13 29 16-0081	EA	Float Switch Tree And (4) Floats With 15' Cords..... Note: Not for use with Intrinsically Safe Control Systems.	424.11	36.98
22 13 29 16-0082	EA	Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only.....	477.73	36.98
22 13 29 16-0083	EA	Float Switch Tree..... Note: Tree only.	214.98	36.98
22 13 29 16-0084	EA	Adjustable Weight For Float Switch.....	62.85	18.48
22 13 29 16-0085	EA	Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge..... Note: Lifting equipment not included.	1,083.20	110.93
22 13 29 16-0086	EA	Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge..... Note: Lifting equipment not included.	1,682.15	147.91

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0087	EA		Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge Note: Lifting equipment not included.	2,192.01	184.87
22 13 29 16-0088	EA		Rail And Disconnect System, Stainless Steel Non-Spearking, For 3" Horizontal Discharge	2,281.44	110.93
22 13 29 16-0089	EA		Rail And Disconnect System, Stainless Steel Non-Spearking, For 4" Horizontal Discharge	3,196.15	110.93
22 13 29 16-0090	EA		Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System	337.79	73.95
22 13 29 16-0091	EA		Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems	571.78	92.44
22 13 29 16-0092	EA		Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems	584.26	110.93
22 13 29 16-0093	EA		12" Stainless Steel Lifting Cable.....	166.85	36.98
22 13 29 16-0094	EA		Disconnect Fitting For 2" Horizontal Discharge..... Note: Used for shallow systems where guide rails are not necessary.	307.73	36.98

22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)

22 13 29 33-0001			Sewage Sump Pump Basin (22 13 29 33)		
22 13 29 33-0002			High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)		
22 13 29 33-0003	EA		18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	143.85	
22 13 29 33-0004	EA		18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	181.68	
22 13 29 33-0005	EA		24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	384.08	
22 13 29 33-0006	EA		24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	530.60	
22 13 29 33-0007	EA		30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	677.10	
22 13 29 33-0008	EA		36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	784.80	

22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)

22 13 29 33-0010	EA		18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	372.56	
22 13 29 33-0011	EA		24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	742.13	
22 13 29 33-0012	EA		30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,321.47	
22 13 29 33-0013	EA		36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,773.11	
22 13 29 33-0014	EA		36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	2,041.19	
22 13 29 33-0015	EA		36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub	2,155.93	
22 13 29 33-0016	EA		36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub	2,529.83	
22 13 29 33-0017	EA		48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	2,936.42	

22 14 Facility Storm Drainage (22 10)

22 14 13 Facility Storm Drainage Piping (22 14)
See CSI section 22 13 16 00-0000 for storm drainage piping.

22 14 26 Facility Storm Drains (22 14)

22 14 26 13 Roof Drains (22 14 26)

22 14 26 13-0001 Cast Iron Roof Drains (22 14 26 13)

22 14 26 13-0002 Cast Iron Roof Drains With Large Polypropylene Dome (22 14 26 13-0001)

22 14 26 13-0003	EA		15" Diameter Cast Iron Roof Drain With 2" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,032.47	225.86
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Bronze Dome, Add</i>	448.80	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0004	EA		15" Diameter Cast Iron Roof Drain With 3" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,145.38	270.97
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Bronze Dome, Add</i>	448.80	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0005	EA		15" Diameter Cast Iron Roof Drain With 4" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,258.28	338.72
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Bronze Dome, Add</i>	448.80	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0006	EA		15" Diameter Cast Iron Roof Drain With 5" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,677.16	406.46
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Bronze Dome, Add</i>	448.80	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0007	EA		15" Diameter Cast Iron Roof Drain With 6" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,733.61	451.58
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Bronze Dome, Add</i>	448.80	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0008	EA		15" Diameter Cast Iron Roof Drain With 8" Outlet, 124 Square Inch Free Area Polypropylene Dome	2,026.39	474.20
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Bronze Dome, Add</i>	448.80	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Storm Drainage	22 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26	13-0009	EA	15" Diameter Cast Iron Roof Drain With 10" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,682.99 518.00 130.00 448.80 147.00 357.00	491.14
22 14 26 13-0010 Cast Iron Roof Drains With Expansion Joint <small>(22 14 26 13-0001)</small>					
Note: With polypropylene dome. Dome free area is 124 square inches.					
22 14 26	13-0011	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 2" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,575.80 518.00 130.00 147.00 357.00	225.86
22 14 26	13-0012	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 3" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,726.67 518.00 130.00 147.00 357.00	270.97
22 14 26	13-0013	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 4" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,913.48 518.00 130.00 147.00 357.00	338.72
22 14 26	13-0014	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 5" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,629.99 518.00 130.00 147.00 357.00	406.46
22 14 26	13-0015	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 6" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,824.27 518.00 130.00 147.00 357.00	451.58
22 14 26 13-0016 Cast Iron Roof Drains With Flat Bronze Promenade Top <small>(22 14 26 13-0001)</small>					
22 14 26	13-0017	EA	14" x 14" Cast Iron Roof Drain With 2" Outlet, Bronze Promenade Top <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,110.34 197.00 130.00 147.00 357.00	225.86
22 14 26	13-0018	EA	14" x 14" Cast Iron Roof Drain With 3" Outlet, Bronze Promenade Top <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,223.25 197.00 130.00 147.00 357.00	270.97
22 14 26	13-0019	EA	14" x 14" Cast Iron Roof Drain With 4" Outlet, Bronze Promenade Top <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,336.15 197.00 130.00 147.00 357.00	338.72
22 14 26	13-0020	EA	14" x 14" Cast Iron Roof Drain With 5" Outlet, Bronze Promenade Top <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,739.06 197.00 130.00 147.00 357.00	406.46
22 14 26	13-0021	EA	14" x 14" Cast Iron Roof Drain With 6" Outlet, Bronze Promenade Top <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,795.51 197.00 130.00 147.00 357.00	451.58
22 14 26 13-0022 Cast Iron Scupper Drain With L-Shaped Bronze Grate <small>(22 14 26 13-0001)</small>					
22 14 26	13-0023	EA	Cast Iron Scupper Drain With 2" Outlet, L-Shaped Bronze Grate <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,342.35 33.00 128.00	90.37
22 14 26	13-0024	EA	Cast Iron Scupper Drain With 3" Outlet, L-Shaped Bronze Grate <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,387.51 33.00 128.00	112.86
22 14 26	13-0025	EA	Cast Iron Scupper Drain With 4" Outlet, L-Shaped Bronze Grate <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Galvanized Iron Parts, Add</i>	1,408.04 33.00 128.00 258.00	123.16
22 14 26	13-0026	EA	Cast Iron Scupper Drain With 5" Outlet, L-Shaped Bronze Grate <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Iron Parts, Add</i>	1,977.20 33.00 258.00	163.26
22 14 26	13-0027	EA	Cast Iron Scupper Drain With 6" Outlet, L-Shaped Bronze Grate <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Iron Parts, Add</i>	2,049.23 33.00 258.00	199.30



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0028			Cast Iron Roof Drain With Flat Cast Iron Grate (22 14 26 13-0001) Note: Grate free area is 27 square inches.		
22 14 26 13-0029	EA		9" x 9" Cast Iron Roof Drain With 2" Outlet, Cast Iron Promenade Top.....	1,124.29	225.86
			<i>For Galvanized Iron Parts, Add</i>	144.00	
			<i>For Deck Clamp Assembly, Add</i>	80.40	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	93.60	
22 14 26 13-0030	EA		9" x 9" Cast Iron Roof Drain With 3" Outlet, Cast Iron Promenade Top.....	1,237.20	270.97
			<i>For Galvanized Iron Parts, Add</i>	144.00	
			<i>For Deck Clamp Assembly, Add</i>	80.40	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	93.60	
22 14 26 13-0031	EA		9" x 9" Cast Iron Roof Drain With 4" Outlet, Cast Iron Promenade Top.....	1,350.10	338.72
			<i>For Galvanized Iron Parts, Add</i>	144.00	
			<i>For Deck Clamp Assembly, Add</i>	80.40	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	93.60	
22 14 26 13-0032			Cast Iron Roof Drains With Large Cast Iron Dome (22 14 26 13-0001)		
22 14 26 13-0033	EA		15" Diameter Cast Iron Roof Drain With 2" Outlet, Cast Iron Dome	1,204.13	225.86
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0034	EA		15" Diameter Cast Iron Roof Drain With 3" Outlet, Cast Iron Dome	1,317.04	270.97
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0035	EA		15" Diameter Cast Iron Roof Drain With 4" Outlet, Cast Iron Dome	1,429.94	338.72
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0036	EA		15" Diameter Cast Iron Roof Drain With 5" Outlet, Cast Iron Dome	1,848.82	406.46
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0037	EA		15" Diameter Cast Iron Roof Drain With 6" Outlet, Cast Iron Dome	1,905.27	451.58
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0038	EA		15" Diameter Cast Iron Roof Drain With 8" Outlet, Cast Iron Dome	2,198.05	474.20
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0039	EA		15" Diameter Cast Iron Roof Drain With 10" Outlet, Cast Iron Dome	2,854.65	491.14
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0040			Aluminum Roof Drains (22 14 26 13)		
22 14 26 13-0041			Aluminum Dome Roof Drains (22 14 26 13-0040)		
22 14 26 13-0042	EA		15" Diameter Roof Drain With 2" Outlet, Aluminum Dome.....	1,234.07	225.86
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0043	EA		15" Diameter Roof Drain With 3" Outlet, Aluminum Dome.....	1,346.98	270.97
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0044	EA		15" Diameter Roof Drain With 4" Outlet, Aluminum Dome.....	1,459.88	338.72
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0045	EA		15" Diameter Roof Drain With 6" Outlet, Aluminum Dome.....	1,935.21	451.17
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0046	EA		15" Diameter Roof Drain With 8" Outlet, Aluminum Dome.....	2,228.27	474.20
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Storm Drainage	22 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0047 EA 15" Diameter Roof Drain With 10" Outlet, Aluminum Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,884.60 518.00 130.00 147.00 357.00	491.14
22 14 26 13-0048 Retrofit Roof Drains (22 14 26 13)		
22 14 26 13-0049 Retrofit Copolymer Roof Drains With Copolymer Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0050 EA Copolymer Retrofit 3" Roof Drains, With Copolymer Dome	940.96	270.97
22 14 26 13-0051 EA Copolymer Retrofit 4" Roof Drains, With Copolymer Dome	1,068.34	338.72
22 14 26 13-0052 EA Copolymer Retrofit 5" Roof Drains, With Copolymer Dome	1,295.62	406.46
22 14 26 13-0053 EA Copolymer Retrofit 6" Roof Drains, With Copolymer Dome	1,409.98	451.17
22 14 26 13-0054 Retrofit Copolymer Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0055 EA Copolymer Retrofit Drain, 3", With Cast Aluminum Dome	1,071.26	270.97
22 14 26 13-0056 EA Copolymer Retrofit Drain, 4", With Cast Aluminum Dome	1,192.85	338.72
22 14 26 13-0057 EA Copolymer Retrofit Drain, 5", With Cast Aluminum Dome	1,428.82	406.46
22 14 26 13-0058 EA Copolymer Retrofit Drain, 6", With Cast Aluminum Dome	1,502.64	451.17
22 14 26 13-0059 Retrofit Roof Aluminum Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0060 EA Aluminum Retrofit 3" Roof Drains, With Cast Aluminum Dome	946.75	270.97
<i>For Copolymer Strainer Dome, Deduct</i>	-24.00	
22 14 26 13-0061 EA Aluminum Retrofit 4" Roof Drains, With Cast Aluminum Dome	1,074.13	338.72
<i>For Copolymer Strainer Dome, Deduct</i>	-24.00	
22 14 26 13-0062 EA Aluminum Retrofit 5" Roof Drains, With Cast Aluminum Dome	1,301.41	406.46
<i>For Copolymer Strainer Dome, Deduct</i>	-24.00	
22 14 26 13-0063 EA Aluminum Retrofit 6" Roof Drains, With Cast Aluminum Dome	1,369.44	451.17
<i>For Copolymer Strainer Dome, Deduct</i>	-24.00	
22 14 26 13-0064 Bronze Downspout Nozzles (22 14 26 13)		
22 14 26 13-0065 EA 2" Outlet, Bronze Roof Drain Downspout Nozzle	554.22	135.49
22 14 26 13-0066 EA 3" Outlet, Bronze Roof Drain Downspout Nozzle	554.22	135.49
22 14 26 13-0067 EA 4" Outlet, Bronze Roof Drain Downspout Nozzle	554.22	135.49
22 14 26 13-0068 EA 5" Outlet, Bronze Roof Drain Downspout Nozzle	848.69	169.36
22 14 26 13-0069 EA 6" Outlet, Bronze Roof Drain Downspout Nozzle	848.69	169.36
22 14 26 13-0070 EA 8" Outlet, Bronze Roof Drain Downspout Nozzle	1,086.12	169.36
22 14 26 16 Facility Area Drains (22 14 26)		
22 14 26 16-0001 Area Drain (22 14 26 16)		
22 14 26 16-0002 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,240.27	163.13
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26 16-0003 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,275.44	180.74
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26 16-0004 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,312.45	199.30
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26 16-0005 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,351.01	218.54
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26 16-0006 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,003.96	163.13
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26 16-0007 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,039.13	180.74
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	152.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26	16-0008	EA	12" x 12" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,076.14	199.30
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0009	EA	12" x 12" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,114.70	218.54
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0010	EA	12" x 12" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,026.45	163.13
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0011	EA	12" x 12" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,061.62	180.74
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0012	EA	12" x 12" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,098.63	199.30
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0013	EA	12" x 12" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,137.19	218.54
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0014	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,507.84	163.13
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0015	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,543.01	180.74
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0016	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,580.02	199.30
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0017	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,618.58	218.54
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0018	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,190.93	163.13
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0019	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,226.10	180.74
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0020	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,263.11	199.30
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0021	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,301.67	218.54
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0022	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,170.66	163.13
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0023	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,205.83	180.74
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0024	EA			16" x 16" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,242.84	199.30
				<i>For Ductile Iron Grate, Add</i>	123.50	
				<i>For Primer Tap, Add</i>	36.00	
				<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0025	EA			16" x 16" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,281.40	218.54
				<i>For Ductile Iron Grate, Add</i>	123.50	
				<i>For Primer Tap, Add</i>	36.00	
				<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0026	EA			9" Diameter Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,458.46	163.13
				<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
				<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0027	EA			9" Diameter Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,493.63	180.74
				<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
				<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0028	EA			9" Diameter Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,530.64	199.30
				<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
				<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0029	EA			9" Diameter Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	893.76	163.13
				<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
				<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0030	EA			9" Diameter Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	928.93	180.74
				<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
				<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0031	EA			9" Diameter Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	965.94	199.30
				<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
				<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0032	EA			9" Diameter Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,376.22	163.13
				<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
				<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0033	EA			9" Diameter Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,411.39	180.74
				<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
				<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0034	EA			9" Diameter Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,448.40	199.30
				<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
				<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0035	EA			12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	4,344.99	163.13
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Ductile Iron Grate, Add</i>	126.00	
				<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0036	EA			12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	4,380.16	180.74
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Ductile Iron Grate, Add</i>	126.00	
				<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0037	EA			12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	4,417.17	199.30
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Ductile Iron Grate, Add</i>	126.00	
				<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0038	EA			12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	2,834.56	163.13
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Ductile Iron Grate, Add</i>	126.00	
				<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0039	EA			12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	2,869.73	180.74
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Ductile Iron Grate, Add</i>	126.00	
				<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0040	EA			12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	2,906.74	199.30
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Ductile Iron Grate, Add</i>	126.00	
				<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0041	EA			12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	4,081.83	163.13
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Ductile Iron Grate, Add</i>	126.00	
				<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0042	EA			12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	4,117.00	180.74
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Ductile Iron Grate, Add</i>	126.00	
				<i>For Galvanized Cast Iron Parts, Add</i>	307.50	

22 Plumbing

22 10 Plumbing Piping

22 14 Facility Storm Drainage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0043	EA	12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	4,154.01	199.30
		<i>For Vandal Proof Screws, Add</i>	30.50	
		<i>For Ductile Iron Grate, Add</i>	126.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 19 Facility Trench Drains (22 14 26)				
22 14 26 19-0001		Trench Drain (22 14 26 19)		
		Note: Each section is 39.4" in length.		
22 14 26 19-0002	EA	6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,175.56	163.13
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	66.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0003	EA	6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,210.73	180.74
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	66.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0004	EA	6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,247.74	199.30
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	66.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0005	EA	6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	736.96	163.13
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	66.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0006	EA	6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	772.13	180.74
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	66.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0007	EA	6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	809.14	199.30
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	66.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0008	EA	6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,115.80	163.13
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	66.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0009	EA	6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,150.97	180.74
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	66.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0010	EA	6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,187.98	199.30
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	66.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0011	EA	6" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,011.72	81.29
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	66.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0012	EA	6" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	573.12	81.29
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	66.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0013	EA	6" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	951.96	81.29
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	66.00	
		<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0014	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,832.01	163.13
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	181.50	
		<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
		<i>For Sediment Bucket, Add</i>	116.00	
		<i>For Galvanized Sediment Bucket, Add</i>	188.50	
		<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0015	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,867.18	180.74
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	181.50	
		<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
		<i>For Sediment Bucket, Add</i>	116.00	
		<i>For Galvanized Sediment Bucket, Add</i>	188.50	
		<i>For Galvanized Cast Iron Parts, Add</i>	131.50	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Storm Drainage	22 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26	19-0016	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,904.19	199.30
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0017	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,289.31	163.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0018	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,324.48	180.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0019	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,361.49	199.30
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0020	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,757.79	163.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0021	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,792.96	180.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0022	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,829.97	199.30
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0023	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,542.82	163.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0024	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,577.99	180.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0025	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,615.00	199.30
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0026	EA	12" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,668.15	81.29
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0027 EA 12" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,125.45	81.29
For Vandal Proof Screws, Add	48.50	
For Ductile Iron Grate, Add	181.50	
For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
22 14 26 19-0028 EA 12" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,593.93	81.29
For Vandal Proof Screws, Add	48.50	
For Ductile Iron Grate, Add	181.50	
For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
22 14 26 19-0029 EA 12" Wide Trench Drain x 15" Extension Section, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,378.96	81.29
For Vandal Proof Screws, Add	48.50	
For Ductile Iron Grate, Add	181.50	
For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
22 14 29 Sump Pumps (22 14)		
See CSI section 22 11 16 00-0000 for pipe extensions into well.		
22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps (22 14 29)		
22 14 29 13-0001 Vertical Mounted Sump Pumps (22 14 29 13)		
Note: Supplied with 1750 RPM premium efficient motor with drip cover, float switch assembly, steel support mounting plate and 5' column sections.		
22 14 29 13-0002 EA 1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head.....	5,234.18	393.08
For Explosion Proof Motor, Add	282.58	
22 14 29 13-0003 EA 1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head.....	5,597.77	475.76
For Explosion Proof Motor, Add	314.15	
22 14 29 13-0004 EA 2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head.....	6,419.33	565.23
For Explosion Proof Motor, Add	405.84	
22 14 29 13-0005 EA 3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head.....	6,945.55	695.35
For Explosion Proof Motor, Add	459.95	
22 14 29 13-0006 EA 5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head.....	7,357.47	753.63
For Explosion Proof Motor, Add	671.89	
22 14 29 13-0007 EA 10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head.....	8,736.27	904.08
For Explosion Proof Motor, Add	762.07	
22 14 29 13-0008 EA 15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head.....	10,087.49	936.41
For Explosion Proof Motor, Add	1,249.08	
22 14 29 13-0009 EA 20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head.....	12,003.80	1,052.46
For Explosion Proof Motor, Add	1,657.92	
22 14 29 13-0010 EA 30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head.....	13,049.12	1,227.43
For Explosion Proof Motor, Add	2,149.43	
22 14 29 13-0011 EA 50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head.....	17,352.31	1,473.45
For Explosion Proof Motor, Add	2,800.28	
22 14 29 13-0012 EA 60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head.....	23,649.82	1,636.58
For Explosion Proof Motor, Add	4,438.65	
22 14 29 13-0013 Extra Column Assemblies (22 14 29 13)		
22 14 29 13-0014 EA 1-1/2" Diameter x 5' Long Extra Column Assembly	755.69	
22 14 29 13-0015 EA 2" Diameter x 5' Long Extra Column Assembly	826.90	
22 14 29 13-0016 EA 2-1/2" Diameter x 5' Long Extra Column Assembly	904.82	
22 14 29 13-0017 EA 3" Diameter x 5' Long Extra Column Assembly	1,086.42	
22 14 29 13-0018 EA 4" Diameter x 5' Long Extra Column Assembly	1,214.32	
22 14 29 13-0019 EA 5" Diameter x 5' Long Extra Column Assembly	1,236.43	
22 14 29 13-0020 EA 6" Diameter x 5' Long Extra Column Assembly	1,388.02	
22 14 29 13-0021 EA 8" Diameter x 5' Long Extra Column Assembly	1,518.82	
22 14 29 13-0022 Support Plate (22 14 29 13)		
22 14 29 13-0023 EA 24" Steel Support Plate, Round Or Square.....	882.08	54.19
22 14 29 13-0024 EA 30" Steel Support Plate, Round Or Square.....	976.65	60.97
22 14 29 13-0025 EA 36" Steel Support Plate, Round Or Square.....	1,354.46	81.29
22 14 29 13-0026 EA 40" Steel Support Plate, Round Or Square.....	1,960.37	94.84
22 14 29 13-0027 EA 42" Steel Support Plate, Round Or Square.....	2,100.83	98.23
22 14 29 13-0028 EA 48" Steel Support Plate, Round Or Square.....	2,245.58	101.62
22 14 29 13-0029 EA 54" Steel Support Plate, Round Or Square.....	2,859.03	121.94
22 14 29 13-0030 EA 60" Steel Support Plate, Round Or Square.....	3,866.10	135.49
22 14 29 13-0031 EA 72" Steel Support Plate, Round Or Square.....	5,159.69	169.36
22 14 29 13-0032 EA 84" Steel Support Plate, Round Or Square.....	6,225.56	186.29
22 14 29 16 Submersible Sump Pumps (22 14 29)		
22 14 29 16-0001 Submersible Sump Pump With Vortex Impeller (22 14 29 16)		
22 14 29 16-0002 Submersible Sump Pump With Cast Iron Vortex Impeller (22 14 29 16-0001)		
22 14 29 16-0003 EA 1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	513.42	88.30
22 14 29 16-0004 EA 1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	560.15	88.30
22 14 29 16-0005 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	838.80	93.44



Plumbing	22	22
Plumbing Piping	22 10	
Facility Storm Drainage	22 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 16-0006 EA 1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	912.74	93.44
22 14 29 16-0007 Submersible Sump Pump With Bronze Vortex Impeller (22 14 29 16-0001) Note: Includes 20' of cord with pump.		
22 14 29 16-0008 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,354.34	93.44
22 14 29 16-0009 EA 1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,465.77	93.44
22 14 29 16-0010 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,544.48	103.01
22 14 29 16-0011 EA 1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,663.61	103.01
22 14 29 16-0012 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,723.16	117.72
22 14 29 16-0013 EA 1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,840.24	117.72
22 14 29 16-0014 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,861.11	139.80
22 14 29 16-0015 EA 2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,962.78	139.80
22 14 29 16-0016 Submersible Sump Pump With Semi-Open Impeller (22 14 29 16) Note: Includes 20' of cord with pump.		
22 14 29 16-0017 EA 1/3 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,132.31	88.30
22 14 29 16-0018 EA 1/3 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,166.60	88.30
22 14 29 16-0019 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,441.73	93.44
22 14 29 16-0020 EA 1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,465.82	93.44
22 14 29 16-0021 EA 3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,746.51	98.60
22 14 29 16-0022 EA 3/4 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,746.51	98.60
22 14 29 16-0023 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,846.48	103.01
22 14 29 16-0024 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,846.48	103.01
22 14 29 16-0025 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,107.48	117.72
22 14 29 16-0026 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,107.48	117.72
22 14 29 16-0027 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,451.78	139.80
22 14 29 16-0028 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,410.08	139.80
22 14 29 19 Sump-Pump Basins and Pits (22 14 29) See CSI section 22 13 29 33-0000 for basins and pits.		
22 15 General Service Compressed-Air Systems (22 10)		
22 15 13 General Service Compressed-Air Piping (22 15) See CSI section 22 11 16 00-0013 for threaded galvanized steel pipe, 23 21 13 23-0001 for threaded black steel pipe.		
22 15 13 00-0001 Quick Disconnect, Air-Service (22 15 13)		
22 15 13 00-0002 Combination Steel And Brass (22 15 13 00-0001)		
22 15 13 00-0003 EA 1/2" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	66.30	20.60
22 15 13 00-0004 EA 3/4" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	73.38	25.01
22 15 13 00-0005 Refrigerated Air Dryers With Ambient Air Filters (22 15 13) Note: 120 Voltage, 1 Phase		
22 15 13 00-0006 EA 3 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	823.14	117.37
22 15 13 00-0007 EA 5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	936.27	120.64
22 15 13 00-0008 EA 7.5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,096.24	123.90
22 15 13 00-0009 EA 10 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,230.62	130.42
22 15 13 00-0010 EA 15 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,594.48	146.72
22 15 13 00-0011 EA 20 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,802.81	166.94
22 15 13 00-0012 EA 25 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,023.61	189.11
22 15 13 00-0013 EA 30 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,374.71	211.93
22 15 13 00-0014 EA 40 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,753.54	247.80
22 15 13 00-0015 EA 50 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,097.54	264.75
22 15 13 00-0016 EA 60 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,633.62	293.44
22 15 13 00-0017 EA 75 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	4,175.63	326.04
For 230 Voltage, Add	1,057.06	
22 15 13 00-0018 EA 85 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	4,515.61	358.66
For 230 Voltage, Add	1,139.49	

22 Plumbing
22 10 Plumbing Piping
22 15 General Service Compressed-Air Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0019 EA 100 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters <i>For 230 Voltage, Add</i>	4,866.94 1,221.92	397.78
22 15 13 00-0020 EA 125 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters <i>For 230 Voltage, Add</i>	5,260.22 1,323.75	423.87
22 15 13 00-0021 EA 175 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters <i>For 230 Voltage, Add</i>	5,559.52 1,403.76	440.17
22 15 13 00-0022 EA 200 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters <i>For 230 Voltage, Add</i>	9,519.73 2,582.04	456.47
22 15 13 00-0023 EA 250 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters <i>For 230 Voltage, Add</i>	10,223.10 2,783.27	472.77
22 15 13 00-0024 EA 300 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters <i>For 230 Voltage, Add</i>	10,907.08 2,978.68	489.08
22 15 13 00-0025 EA 400 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters <i>For 230 Voltage, Add</i>	12,936.10 3,567.82	521.68
22 15 13 00-0026 EA 500 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters <i>For 230 Voltage, Add</i>	14,695.25 4,017.32	652.10
22 15 13 00-0027 EA 600 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters <i>For 230 Voltage, Add</i>	20,847.49 5,784.74	782.52
22 15 13 00-0028 EA 800 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters <i>For 230 Voltage, Add</i>	28,252.38 7,927.95	912.93
22 15 13 00-0029 EA 1,000 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters <i>For 230 Voltage, Add</i>	31,640.76 8,866.22	1,043.36
22 15 13 00-0030 Oil And Water Separator For Air Compressor (22 15 13)		
22 15 13 00-0031 EA 0-60 SCFM Oil/Water Separator	714.28	47.11
22 15 13 00-0032 EA 85 SCFM Oil/Water Separator	954.12	55.20
22 15 13 00-0033 EA 190 SCFM Oil/Water Separator	1,114.30	62.57
22 15 13 00-0034 EA 245 SCFM Oil/Water Separator	1,396.61	73.60
22 15 13 00-0035 EA 320 SCFM Oil/Water Separator	1,660.41	88.32
22 15 13 00-0036 EA 700 SCFM Oil/Water Separator	3,350.09	184.01
22 15 13 00-0037 Heavy Duty Industrial Pressure Regulator (22 15 13)		
22 15 13 00-0038 EA 3/8" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	138.05	39.12
22 15 13 00-0039 EA 1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	191.62	52.17
22 15 13 00-0040 EA 3/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	315.97	65.21
22 15 13 00-0041 EA 1" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	403.81	97.81
22 15 13 00-0042 EA 1-1/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	553.66	114.12
22 15 13 00-0043 EA 1-1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	586.27	130.42
22 15 13 00-0044 Combination Air System; Filter Regulator Lubricator (22 15 13)		
22 15 13 00-0045 EA 3/8" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter.....	509.51	117.37
22 15 13 00-0046 EA 1/2" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter.....	636.25	156.51
22 15 13 00-0047 Heatless Desiccant Air Dryers (22 15 13)		
22 15 13 00-0048 EA 5 SCFM Heatless Desiccant Air Dryer	2,728.23	117.37
22 15 13 00-0049 EA 10 SCFM Heatless Desiccant Air Dryer	3,275.24	130.42
22 15 13 00-0050 EA 15 SCFM Heatless Desiccant Air Dryer	3,312.63	143.46
22 15 13 00-0051 EA 20 SCFM Heatless Desiccant Air Dryer	3,783.39	163.02
22 15 13 00-0052 EA 30 SCFM Heatless Desiccant Air Dryer	5,198.14	195.63
22 15 13 00-0053 EA 50 SCFM Heatless Desiccant Air Dryer	5,165.31	260.84
22 15 13 00-0054 EA 85 SCFM Heatless Desiccant Air Dryer	6,926.58	326.04
22 15 13 00-0055 EA 100 SCFM Heatless Desiccant Air Dryer	7,371.85	391.26
22 15 13 00-0056 EA 125 SCFM Heatless Desiccant Air Dryer	8,443.59	456.47
22 15 13 00-0057 EA 175 SCFM Heatless Desiccant Air Dryer	9,694.61	521.68
22 15 13 00-0058 EA 200 SCFM Heatless Desiccant Air Dryer	10,430.33	586.89
22 15 13 00-0059 EA 300 SCFM Heatless Desiccant Air Dryer	12,723.36	652.10
22 15 13 00-0060 EA 400 SCFM Heatless Desiccant Air Dryer	14,160.86	782.52
22 15 13 00-0061 EA 500 SCFM Heatless Desiccant Air Dryer	16,370.96	912.93
22 15 13 00-0062 EA 600 SCFM Heatless Desiccant Air Dryer	18,884.92	1,043.36
22 15 13 00-0063 Air Cooled Aftercoolers (22 15 13)		
22 15 13 00-0064 EA 20 SCFM Air-Cooled Aftercooler	712.60	81.51
22 15 13 00-0065 EA 35 SCFM Air-Cooled Aftercooler	956.91	97.81
22 15 13 00-0066 EA 43 SCFM Air-Cooled Aftercooler	1,054.16	114.12
22 15 13 00-0067 EA 70 SCFM Air-Cooled Aftercooler	1,283.96	130.42
22 15 13 00-0068 EA 125 SCFM Air-Cooled Aftercooler	1,772.34	146.72
22 15 13 00-0069 EA 185 SCFM Air-Cooled Aftercooler	1,989.21	163.02
22 15 13 00-0070 EA 260 SCFM Air-Cooled Aftercooler	3,795.83	195.63
22 15 13 00-0071 EA 365 SCFM Air-Cooled Aftercooler	3,979.36	228.23
22 15 13 00-0072 EA 560 SCFM Air-Cooled Aftercooler	4,161.59	260.84
22 15 13 00-0073 EA 650 SCFM Air-Cooled Aftercooler	4,874.61	293.44
22 15 13 00-0074 EA 750 SCFM Air-Cooled Aftercooler	5,331.61	326.04
22 15 13 00-0075 EA 900 SCFM Air-Cooled Aftercooler	6,106.70	358.66
22 15 13 00-0076 EA 1,100 SCFM Air-Cooled Aftercooler	7,807.61	391.26
22 15 13 00-0077 EA 1,460 SCFM Air-Cooled Aftercooler	8,919.52	423.87
22 15 13 00-0078 EA 1,800 SCFM Air-Cooled Aftercooler	9,219.10	456.47



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0079	EA		2,500 SCFM Air-Cooled Aftercooler	9,885.58	489.08
22 15 13 00-0080			Compressed Air Coalescing Filters (22 15 13)		
22 15 13 00-0081			1.0 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0080)		
22 15 13 00-0082	EA		10 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating	257.32	47.84
22 15 13 00-0083	EA		20 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating	302.58	47.84
22 15 13 00-0084	EA		50 SCFM, 1/2", Coalescing Filter, 1.0 Micron Filter Rating	331.83	55.20
22 15 13 00-0085	EA		75 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating	381.98	63.30
22 15 13 00-0086	EA		100 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating	443.71	69.92
22 15 13 00-0087	EA		140 SCFM, 1", Coalescing Filter, 1.0 Micron Filter Rating	505.47	84.64
22 15 13 00-0088	EA		175 SCFM, 1-1/4" Coalescing Filter, 1.0 Micron Filter Rating	573.24	92.00
22 15 13 00-0089	EA		250 SCFM, 1-1/2" Coalescing Filter, 1.0 Micron Filter Rating	660.44	110.41
22 15 13 00-0090	EA		280 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating	850.43	147.21
22 15 13 00-0091	EA		350 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating	971.27	165.60
22 15 13 00-0092			0.01 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0080)		
22 15 13 00-0093	EA		16 SCFM, 3/8" Coalescing Filter, 0.01 Micron Filter Rating	309.04	47.84
22 15 13 00-0094	EA		30 SCFM, 1/2" Coalescing Filter, 0.01 Micron Filter Rating	336.66	55.20
22 15 13 00-0095	EA		60 SCFM, 3/4" Coalescing Filter, 0.01 Micron Filter Rating	386.50	63.30
22 15 13 00-0096	EA		100 SCFM, 1" Coalescing Filter, 0.01 Micron Filter Rating	452.77	62.57
22 15 13 00-0097	EA		140 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating	515.81	84.64
22 15 13 00-0098	EA		180 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating	583.24	92.00
22 15 13 00-0099	EA		250 SCFM, 1-1/2" Coalescing Filter, 0.01 Micron Filter Rating	672.08	110.41
22 15 13 00-0100	EA		280 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating	869.82	147.21
22 15 13 00-0101	EA		350 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating	997.14	165.60
22 15 13 00-0102			Compressed Air Storage Tanks (22 15 13)		
22 15 13 00-0103			Horizontal Compressed Air Storage Tanks (22 15 13 00-0102)		
22 15 13 00-0104	EA		12 Gallon Horizontal Compressed Air Storage Tank, ASME	434.95	104.34
22 15 13 00-0105	EA		15 Gallon Horizontal Compressed Air Storage Tank, ASME	752.44	114.12
22 15 13 00-0106	EA		20 Gallon Horizontal Compressed Air Storage Tank, ASME	796.94	119.98
22 15 13 00-0107	EA		30 Gallon Horizontal Compressed Air Storage Tank, ASME	906.60	130.42
22 15 13 00-0108	EA		60 Gallon Horizontal Compressed Air Storage Tank, ASME	1,185.29	176.07
22 15 13 00-0109	EA		80 Gallon Horizontal Compressed Air Storage Tank, ASME	1,425.58	195.63
22 15 13 00-0110	EA		120 Gallon Horizontal Compressed Air Storage Tank, ASME	2,117.88	228.23
22 15 13 00-0111	EA		200 Gallon Horizontal Compressed Air Storage Tank, ASME	3,133.22	260.84
22 15 13 00-0112	EA		240 Gallon Horizontal Compressed Air Storage Tank, ASME	3,488.88	277.14
22 15 13 00-0113	EA		325 Gallon Horizontal Compressed Air Storage Tank, ASME	5,009.87	293.44
22 15 13 00-0114	EA		400 Gallon Horizontal Compressed Air Storage Tank, ASME	6,586.60	342.36
22 15 13 00-0115	EA		660 Gallon Horizontal Compressed Air Storage Tank, ASME	9,448.17	407.57
22 15 13 00-0116			Vertical Compressed Air Storage Tanks (22 15 13 00-0102)		
22 15 13 00-0117	EA		10 Gallon Vertical Compressed Air Storage Tank, ASME	700.11	104.34
22 15 13 00-0118	EA		15 Gallon Vertical Compressed Air Storage Tank, ASME	736.06	114.12
22 15 13 00-0119	EA		20 Gallon Vertical Compressed Air Storage Tank, ASME	796.94	119.98
22 15 13 00-0120	EA		30 Gallon Vertical Compressed Air Storage Tank, ASME	939.03	130.42
22 15 13 00-0121	EA		60 Gallon Vertical Compressed Air Storage Tank, ASME	1,282.60	176.07
22 15 13 00-0122	EA		80 Gallon Vertical Compressed Air Storage Tank, ASME	1,472.44	195.63
22 15 13 00-0123	EA		120 Gallon Vertical Compressed Air Storage Tank, ASME	2,015.99	228.23
22 15 13 00-0124	EA		200 Gallon Vertical Compressed Air Storage Tank, ASME	2,923.21	260.84
22 15 13 00-0125	EA		240 Gallon Vertical Compressed Air Storage Tank, ASME	3,221.20	277.14
22 15 13 00-0126	EA		325 Gallon Vertical Compressed Air Storage Tank, ASME	4,354.63	293.44
22 15 13 00-0127	EA		400 Gallon Vertical Compressed Air Storage Tank, ASME	5,569.66	342.36
22 15 13 00-0128	EA		500 Gallon Vertical Compressed Air Storage Tank, ASME	7,240.26	374.96
22 15 13 00-0129	EA		660 Gallon Vertical Compressed Air Storage Tank, ASME	11,970.76	423.87
22 15 19			General Service Packaged Air Compressors and Receivers (22 15)		
			Note: Includes V-belt drive, receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.		
22 15 19 13			General Service Packaged Reciprocating Air Compressors (22 15 19)		
22 15 19 13-0001			Single Stage Compressor (22 15 19 13)		
			Note: Includes receiver, reciprocating air cooled, 140 PSIG working pressure, splash lubricated, tank mounted.		
22 15 19 13-0002	EA		1/2 HP 1-Stage Air Compressor, 1.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,007.06	462.73
22 15 19 13-0003	EA		3/4 HP 1-Stage Air Compressor, 2.0 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,159.63	534.07
22 15 19 13-0004	EA		1 HP 1-Stage Air Compressor, 2.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,613.03	630.71
22 15 19 13-0005	EA		2 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	4,108.28	695.92
22 15 19 13-0006	EA		3 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	4,984.45	735.04
22 15 19 13-0007	EA		3 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure	5,317.15	761.13
22 15 19 13-0008	EA		5 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure	5,976.24	869.90
22 15 19 13-0009	EA		5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure	6,406.24	922.07
22 15 19 13-0010	EA		7.5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure	7,664.32	1,043.88

22	Plumbing
22 10	Plumbing Piping
22 15	General Service Compressed-Air Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 15 19 13-0011	Two Stage Compressor <small>(22 15 19 13)</small>		
	Note: With receiver, reciprocating air cooled, discharge pressure 80-200 PSIG, receiver capacity as noted, splash lubricated, tank mounted.		
22 15 19 13-0012	EA 1-1/2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 5.0 ACFM, 80-200 PSIG Discharge Pressure	5,724.53	813.30
22 15 19 13-0013	EA 2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 7.0 ACFM, 80-200 PSIG Discharge Pressure	6,174.91	956.89
22 15 19 13-0014	EA 3 HP 2-Stage Air Compressor, 60 Gallon Receiver, 12 ACFM, 80-200 PSIG Discharge Pressure	6,469.73	1,043.88
22 15 19 13-0015	EA 5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 15 ACFM, 80-200 PSIG Discharge Pressure	7,457.77	1,391.84
22 15 19 13-0016	EA 5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 16.5 ACFM, 80-200 PSI Max Discharge Pressure	8,001.91	1,391.84
22 15 19 13-0017	EA 7.5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 19.8 ACFM, 80-200 PSIG Discharge Pressure	8,677.49	1,739.80
22 15 19 13-0018	EA 7.5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 25.6 ACFM, 80-200 PSI Max Discharge Pressure	9,171.01	1,739.80
22 15 19 13-0019	EA 10 HP 2-Stage Air Compressor, 80 Gallon Receiver, 35.0 ACFM, 80-200 PSI Max Discharge Pressure	11,739.01	2,151.92
22 15 19 13-0020	EA 10 HP 2-Stage Air Compressor, 120 Gallon Receiver, 38 ACFM, 80-200 PSIG Discharge Pressure	12,625.53	2,217.13
22 15 19 13-0021	EA 15 HP 2-Stage Air Compressor, 120 Gallon Receiver, 50 ACFM, 80-200 PSIG Discharge Pressure	13,631.34	2,591.17
22 15 19 13-0022	EA 20 HP 2-Stage Air Compressor, 120 Gallon Receiver, 70 ACFM, 80-200 PSIG Discharge Pressure	20,208.11	2,933.14
22 15 19 13-0023	EA 25 HP 2-Stage Air Compressor, 120 Gallon Receiver, 84.4 ACFM, 175 PSI Max Discharge Pressure	21,765.31	3,314.35
22 15 19 13-0024	EA 30 HP 2-Stage Air Compressor, 120 Gallon Receiver, 97.2 ACFM, 175 PSI Max Discharge Pressure	24,248.07	3,663.09
22 15 19 13-0025	EA 30 HP 2-Stage Air Compressor, 250 Gallon Receiver, 101 ACFM, 175 PSI Max Discharge Pressure	26,389.40	4,014.58

22 15 19 19 General Service Packaged Rotary-Screw Air Compressors (22 15 19)

22 15 19 19-0001	Rotary Screw Air Compressor, Base Mounted Without Receiver <small>(22 15 19 19)</small>		
	Note: Oil flooded.		
22 15 19 19-0002	EA 3 HP, 8.5 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated	9,708.43	1,174.71
22 15 19 19-0003	EA 5 HP, 16.6 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated	10,917.34	1,566.28
22 15 19 19-0004	EA 7.5 HP, 27 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	13,981.39	1,963.74
22 15 19 19-0005	EA 10 HP, 37 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	16,264.22	2,502.52
22 15 19 19-0006	EA 15 HP, 56 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	18,617.05	2,944.14
22 15 19 19-0007	EA 20 HP, 79 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	22,513.77	3,312.16
22 15 19 19-0008	EA 25 HP, 114 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated ...	24,697.05	3,680.18
22 15 19 19-0009	EA 30 HP, 137 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated ...	29,585.91	4,121.79
22 15 19 19-0010	EA 40 HP, 183 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated ...	32,485.00	4,416.21
22 15 19 19-0011	EA 50 HP, 214 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated ...	36,401.87	4,759.21
22 15 19 19-0012	EA 60 HP, 256 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	46,982.57	5,152.25
22 15 19 19-0013	EA 75 HP, 320 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	52,045.56	5,446.66
22 15 19 19-0014	EA 100 HP, 494 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	82,653.85	5,888.28
22 15 19 19-0015	EA 125 HP, 592 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	102,811.77	6,366.70
22 15 19 19-0016	EA 150 HP, 695 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	119,257.28	6,852.49
22 15 19 19-0017	EA 220 HP, 996 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	154,669.89	7,360.36
22 15 19 19-0018	EA 250 HP, 1,000 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	175,566.29	7,831.41

22 15 19 19-0019	Rotary Screw Air Compressor, Base Mounted With Receiver <small>(22 15 19 19)</small>		
	Note: Includes receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.		
22 15 19 19-0020	EA 5 HP, 18.5 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated	12,149.89	1,566.28
22 15 19 19-0021	EA 5 HP, 18.5 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated	12,878.79	1,566.28
22 15 19 19-0022	EA 7.5 HP, 28 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	14,560.97	1,963.74
22 15 19 19-0023	EA 7.5 HP, 28 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	15,358.20	1,963.74
22 15 19 19-0024	EA 10 HP, 38 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	16,583.12	2,502.52
22 15 19 19-0025	EA 10 HP, 38 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	17,425.91	2,502.52
22 15 19 19-0026	EA 15 HP, 55 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	18,880.26	2,944.14
22 15 19 19-0027	EA 15 HP, 55 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	19,791.39	2,944.14
22 15 19 19-0028	EA 20 HP, 75 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	32,110.94	3,312.16
22 15 19 19-0029	EA 25 HP, 102 SCFM, 120 gallon receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	34,635.90	3,680.18
22 15 19 19-0030	EA 30 HP, 125 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	36,933.12	4,121.79

22 30 Plumbing Equipment (22)

22 31 Domestic Water Softeners (22 30)

22 31 16 Commercial Domestic Water Softeners (22 31)

22 31 16 00-0001	Commercial Water Softeners (Watts Pure Water) <small>(22 31 16)</small>
22 31 16 00-0002	Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0001)</small>



	Plumbing	22
	Plumbing Equipment	22 30
	Domestic Water Softeners	22 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0003 1" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0002)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0004 EA 30,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111A11)	5,113.01	372.59
22 31 16 00-0005 EA 45,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111B11)	5,344.45	389.52
22 31 16 00-0006 EA 60,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111C11)	5,767.09	406.46
22 31 16 00-0007 EA 90,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111D11)	6,633.75	423.40
22 31 16 00-0008 EA 120,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111E11)	7,069.13	440.34
22 31 16 00-0009 1-1/2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0002)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0010 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121C11)	7,642.96	406.46
22 31 16 00-0011 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121D11)	8,038.00	423.40
22 31 16 00-0012 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121E11)	8,475.51	440.34
22 31 16 00-0013 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121F11)	10,064.46	457.27
22 31 16 00-0014 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121G11)	11,183.91	474.20
22 31 16 00-0015 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121H11)	13,607.77	491.14
22 31 16 00-0016 2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0002)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0017 EA 90,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D11)	11,585.79	423.40
22 31 16 00-0018 EA 120,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E11)	12,008.43	440.34
22 31 16 00-0019 EA 150,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F11)	13,601.64	457.27
22 31 16 00-0020 EA 210,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G11)	14,721.09	474.20
22 31 16 00-0021 EA 300,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H11)	17,276.66	491.14
22 31 16 00-0022 EA 450,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I11)	22,772.44	508.08
22 31 16 00-0023 EA 600,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J11)	26,632.42	525.01
22 31 16 00-0024 3" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0002)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0025 EA 300,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H11)	27,949.79	491.14
22 31 16 00-0026 EA 450,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I11)	32,283.51	508.08
22 31 16 00-0027 EA 600,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J11)	36,092.50	525.01
22 31 16 00-0028 EA 900,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K11)	45,429.24	541.95
22 31 16 00-0029 EA 1050,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L11)	50,298.32	558.89
22 31 16 00-0030 Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0001)</small>		
22 31 16 00-0031 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0030)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0032 EA 90,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D21)	19,009.19	635.10
22 31 16 00-0033 EA 120,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E21)	19,852.40	660.50
22 31 16 00-0034 EA 150,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F21)	22,599.11	685.90



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0035 EA 210,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G21)	24,704.25	711.31
22 31 16 00-0036 EA 300,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H21)	30,142.60	736.71
22 31 16 00-0037 EA 450,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J21)	39,910.56	762.12
22 31 16 00-0038 EA 600,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J21)	46,963.49	787.52
22 31 16 00-0039 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0030)</small>		
Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0040 EA 300,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H21)	51,310.42	736.71
22 31 16 00-0041 EA 450,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J21)	58,936.95	762.12
22 31 16 00-0042 EA 600,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J21)	66,225.69	787.52
22 31 16 00-0043 EA 900,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K21)	84,247.06	812.92
22 31 16 00-0044 EA 1,050,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L21)	94,055.37	838.33
22 31 16 00-0045 Twin Alternating, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0001)</small>		
22 31 16 00-0046 1" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0045)</small>		
Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0047 EA 30,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21)	6,730.51	558.89
22 31 16 00-0048 EA 45,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21)	7,176.47	584.29
22 31 16 00-0049 EA 60,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21)	7,824.23	609.69
22 31 16 00-0050 EA 90,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21)	9,379.15	635.10
22 31 16 00-0051 EA 120,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21)	10,368.95	660.50
22 31 16 00-0052 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0045)</small>		
Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0053 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21)	13,120.44	609.69
22 31 16 00-0054 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21)	13,834.08	635.10
22 31 16 00-0055 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21)	14,887.61	660.50
22 31 16 00-0056 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21)	17,033.11	685.90
22 31 16 00-0057 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21)	19,210.47	711.31
22 31 16 00-0058 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21)	24,034.87	736.71
22 32 Domestic Water Filtration Equipment <small>(22 30)</small>		
22 32 16 Domestic-Water Freestanding Cartridge Filters <small>(22 32)</small>		
22 32 16 00-0001 Commercial Water Filters Housings <small>(22 32 16)</small>		
22 32 16 00-0002 Commercial Multi-Cartridge Stainless Steel Water Filter Housings <small>(22 32 16 00-0001)</small>		
22 32 16 00-0003 Commercial Multi-Cartridge Stainless Steel Water Filter Housings <small>(22 32 16 00-0002)</small>		
22 32 16 00-0004 EA 25 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X1)	2,655.97	239.21
22 32 16 00-0005 EA 30 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X1)	2,711.89	257.61
22 32 16 00-0006 EA 60 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X2)	2,886.78	276.01
22 32 16 00-0007 EA 90 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X3)	3,193.37	294.42
22 32 16 00-0008 EA 120 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X4)	3,291.79	312.81
22 32 16 00-0009 EA 150 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X4)	3,978.67	331.22



Plumbing	22	22
Plumbing Equipment	22 30	
Domestic Water Filtration Equipment	22 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 32 16 00-0010 EA 250 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X3)	11,038.83	349.61
22 32 16 00-0011 EA 300 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X4)	12,832.53	368.02
22 32 16 00-0012 EA 500 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X3)	16,272.67	386.42
22 32 16 00-0013 EA 600 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X4)	18,045.14	404.82
22 32 16 00-0014 Commercial Water Filter Cartridges (22 32 16 00-0002)		
22 32 16 00-0015 (Depth) Water Filter Cartridges (22 32 16 00-0014)		
22 32 16 00-0016 EA 50 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M50)	13.85	2.95
22 32 16 00-0017 EA 20 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M20)	13.85	2.95
22 32 16 00-0018 EA 10 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M10)	13.85	2.95
22 32 16 00-0019 EA 5 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M5)	11.72	2.95
22 32 16 00-0020 EA 1 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M1)	14.38	2.95
22 32 16 00-0021 EA 50 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M50)	14.38	2.95
22 32 16 00-0022 EA 20 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M20)	15.44	2.95
22 32 16 00-0023 EA 5 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Big Pure Water PWMB20M5)	19.16	2.95
22 32 16 00-0024 EA 1 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M1)	15.44	2.95
22 32 16 00-0025 EA 50 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M50)	18.10	2.95
22 32 16 00-0026 EA 20 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M20)	18.10	2.95
22 32 16 00-0027 EA 5 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M5)	18.10	2.95
22 32 16 00-0028 EA 1 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M1)	19.69	2.95
22 32 16 00-0029 EA 50 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M50)	25.53	2.95
22 32 16 00-0030 EA 20 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M20)	23.41	2.95
22 32 16 00-0031 EA 5 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M5)	23.41	2.95
22 32 16 00-0032 EA 1 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M1)	25.53	2.95
22 32 16 00-0033 Pleated Water Filter Cartridges (22 32 16 00-0014)		
22 32 16 00-0034 EA 50 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M50)	23.94	2.95
22 32 16 00-0035 EA 20 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M20)	23.94	2.95
22 32 16 00-0036 EA 5 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M5)	24.47	2.95
22 32 16 00-0037 EA 1 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1)	26.06	2.95
22 32 16 00-0038 EA 1 Micron Absolute, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1AB)	38.81	2.95
22 32 16 00-0039 EA 50 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M50)	37.22	2.95
22 32 16 00-0040 EA 20 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M20)	37.22	2.95
22 32 16 00-0041 EA 5 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Big Pure Water PWPL20M5)	37.22	2.95
22 32 16 00-0042 EA 1 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1)	48.90	2.95
22 32 16 00-0043 EA 1 Micron Absolute, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1AB)	69.08	2.95
22 32 16 00-0044 EA 50 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M50)	57.93	2.95
22 32 16 00-0045 EA 20 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M20)	80.24	2.95
22 32 16 00-0046 EA 5 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M5)	83.42	2.95
22 32 16 00-0047 EA 1 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M1)	94.04	2.95
22 32 16 00-0048 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0001)		
22 32 16 00-0049 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0048)		
22 32 16 00-0050 EA 150 GPM Max Flow Rate, 1 Cartridge, Commercial Non-Metallic Water Filter Housing (Watts Big Bubba® PWWJCHSG)	2,099.74	220.81
22 32 16 00-0051 Commercial Water Filter Cartridges (22 32 16 00-0048)		
22 32 16 00-0052 Carbon Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0053 EA Activated 26-1/4" Length, Carbon Water Filter Cartridge (Watts Big Bubba® PWWJCAC5)	667.64	2.95
22 32 16 00-0054 (Depth) Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0055 EA 50 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB50)	139.19	2.95
22 32 16 00-0056 EA 20 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB20)	138.13	2.95
22 32 16 00-0057 EA 5 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB5)	138.13	2.95
22 32 16 00-0058 EA 1 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB1)	158.31	2.95
22 32 16 00-0059 Pleated Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0060 EA 150 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCM150)	367.03	2.95
22 32 16 00-0061 EA 50 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP50)	344.73	2.95
22 32 16 00-0062 EA 20 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP20)	375.53	2.95
22 32 16 00-0063 EA 5 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP5)	393.59	2.95
22 32 16 00-0064 EA 1 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1)	419.08	2.95
22 32 16 00-0065 EA 1 Absolute, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1AB)	454.13	2.95

22 33 Electric Domestic Water Heaters (22 30)

22 33 13 Instantaneous Electric Domestic Water Heaters (22 33)

22 Plumbing**22 30 Plumbing Equipment****22 33 Electric Domestic Water Heaters**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**22 33 13 13 Flow-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)****22 33 13 13-0001 Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters**

CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 13 13-0002	EA	3 To 10 KW Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012, EX48, EX65, EX75, EX95).....	401.00	73.58
22 33 13 13-0003	EA	7.2 KW, 0.75 GPM, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch RP7P).....	624.34	73.58

22 33 13 16 Thermostat-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)**22 33 13 16-0001 Thermostat Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 16)**

Note: Temperature rise decreases with increased flow rate.

CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 13 16-0002	EA	3 To 10 KW Thermostat-Control, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012T, EX48T, EX65T, EX75T, EX95T, EX012240T).....	544.94	110.37
22 33 13 16-0003	EA	12 KW, 2.0 GPM, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE12).....	811.63	147.16
22 33 13 16-0004	EA	17.25 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE115).....	1,377.49	257.53
22 33 13 16-0005	EA	26.85 KW, 4.0 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE125).....	2,054.73	294.32
22 33 13 16-0006	EA	12 KW, 1.6 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Temptra 12 Plus).....	1,029.07	147.16
22 33 13 16-0007	EA	14.4 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Temptra 15 Plus).....	1,425.39	220.74
22 33 13 16-0008	EA	19.2 KW, 2.8 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Temptra 20 Plus).....	1,620.69	294.32
22 33 13 16-0009	EA	24 KW, 3.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Temptra 24 Plus).....	1,671.65	294.32
22 33 13 16-0010	EA	28.8 KW, 4.5 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Temptra 29 Plus).....	1,719.78	294.32
22 33 13 16-0011	EA	36 KW, 4.5 GPM At 55 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Temptra 36 Plus).....	1,790.57	294.32

22 33 30 Residential, Electric Domestic Water Heaters (22 33)**22 33 30 13 Residential, Small-Capacity Electric Domestic Water Heaters (22 33 30)****22 33 30 13-0001 Small-Capacity, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 13)**

Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.

CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 30 13-0002	EA	2 Gallon, Small-Capacity, Electric Domestic Water Heater.....	837.23	231.78
22 33 30 13-0003	EA	10 Gallon, Small-Capacity, Electric Domestic Water Heater.....	991.23	246.50
22 33 30 13-0004	EA	20 Gallon, Small-Capacity, Electric Domestic Water Heater.....	1,137.89	257.53

22 33 30 16 Residential, Storage Electric Domestic Water Heaters (22 33 30)**22 33 30 16-0001 Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)**

Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.

CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 30 16-0002	EA	30 Gallon, Electric Domestic Water Heater.....	1,198.78	257.53
22 33 30 16-0003	EA	40 Gallon, Electric Domestic Water Heater.....	1,149.50	264.89
22 33 30 16-0004	EA	50 Gallon, Electric Domestic Water Heater.....	1,142.40	272.25
22 33 30 16-0005	EA	55 Gallon, Electric Domestic Water Heater.....	1,248.26	275.93
22 33 30 16-0006	EA	66 Gallon, Electric Domestic Water Heater.....	1,700.18	283.28
22 33 30 16-0007	EA	80 Gallon, Electric Domestic Water Heater.....	1,737.83	294.32
22 33 30 16-0008	EA	120 Gallon, Electric Domestic Water Heater.....	2,235.81	312.71

22 33 30 16-0009 Low-Boy, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)

Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.

CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 30 16-0010	EA	30 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,268.70	257.53
22 33 30 16-0011	EA	40 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,227.36	264.89
22 33 30 16-0012	EA	50 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,291.90	272.25

22 33 30 16-0013 High Efficiency, Electric Domestic Water Heaters (A.O. Smith**Conservationist) (22 33 30 16)**

Note: Includes .95 energy factor glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.

CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 30 16-0014	EA	40 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,309.04	264.89
22 33 30 16-0015	EA	50 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,413.37	272.25
22 33 30 16-0016	EA	66 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,689.21	283.28
22 33 30 16-0017	EA	80 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,823.40	294.32

22 33 30 16-0018 Water Heater Accessories (22 33 30 16)

CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 30 16-0019	EA	2 Gallon, Expansion Pressure Tank For Water Heaters.....	94.91	14.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 30 16-0020 EA 4.4 Gallon, Expansion Pressure Tank For Water Heaters	109.52	14.72
22 33 30 16-0021 EA 7.6 Gallon, Expansion Pressure Tank For Water Heaters	199.78	14.72
22 33 30 16-0022 EA 14 Gallon, Expansion Pressure Tank For Water Heaters	263.30	14.72
22 33 30 16-0023 EA 20" Diameter, 3" Deep, Aluminum Water Heater Drain Pan	77.71	11.04
22 33 30 16-0024 EA 22" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan	84.42	11.04
22 33 30 16-0025 EA 24" Diameter, 3" Deep, Aluminum Water Heater Drain Pan	88.89	11.04
22 33 30 16-0026 EA 26" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan	104.53	11.04
22 33 30 16-0027 EA 22" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan	44.09	11.04
22 33 30 16-0028 EA 24" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan	47.66	11.04
22 33 30 16-0029 EA 26" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan	52.69	11.04
22 33 30 16-0030 EA 28" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan	59.16	11.04

22 33 33 Light-Commercial Electric Domestic Water Heaters (22 33)

22 33 33 00-0001 Heavy Duty Electric Commercial Water Heaters (A.O. Smith DSE) (22 33 33)

Note: Includes glass lined tank, ASME tank construction, drain valve, and temperature and pressure relief valve.

22 33 33 00-0002 EA 3 KW, 5 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-5-3)	4,928.02	257.53
22 33 33 00-0003 EA 3 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-3)	5,113.83	257.53
22 33 33 00-0004 EA 6 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-6)	5,315.13	257.53
22 33 33 00-0005 EA 3 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-3)	5,388.71	294.32
22 33 33 00-0006 EA 6 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-6)	5,620.98	294.32
22 33 33 00-0007 EA 9 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-9)	5,992.60	294.32
22 33 33 00-0008 EA 12 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-12)	6,240.35	294.32
22 33 33 00-0009 EA 15 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-15)	6,441.65	294.32
22 33 33 00-0010 EA 18 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-18)	6,658.43	294.32
22 33 33 00-0011 EA 6 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-6)	5,853.24	294.32
22 33 33 00-0012 EA 9 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-9)	6,070.02	294.32
22 33 33 00-0013 EA 12 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-12)	6,317.77	294.32
22 33 33 00-0014 EA 15 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-15)	6,519.07	294.32
22 33 33 00-0015 EA 18 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-18)	6,735.85	294.32
22 33 33 00-0016 EA 24 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-24)	8,330.74	294.32
22 33 33 00-0017 EA 9 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-9)	6,418.48	367.90
22 33 33 00-0018 EA 12 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-12)	6,619.78	367.90
22 33 33 00-0019 EA 15 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-15)	6,867.53	367.90
22 33 33 00-0020 EA 18 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-18)	7,084.31	367.90
22 33 33 00-0021 EA 24 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-24)	8,694.68	367.90
22 33 33 00-0022 EA 30 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-30)	9,437.93	367.90
22 33 33 00-0023 EA 36 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-36)	10,165.69	367.90
22 33 33 00-0024 EA 9 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-9)	7,432.76	441.48
22 33 33 00-0025 EA 12 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-12)	7,634.06	441.48
22 33 33 00-0026 EA 15 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-15)	7,835.36	441.48
22 33 33 00-0027 EA 18 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-18)	8,052.14	441.48
22 33 33 00-0028 EA 24 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-24)	9,708.96	441.48
22 33 33 00-0029 EA 30 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-30)	10,452.21	441.48
22 33 33 00-0030 EA 36 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-36)	11,179.98	441.48
22 33 33 00-0031 EA 45 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-45)	12,496.15	441.48
22 33 33 00-0032 EA 54 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-54)	13,084.55	441.48
22 33 33 00-0033 EA 60 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-60)	15,128.48	441.48
22 33 33 00-0034 EA 75 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-75)	17,760.82	441.48
22 33 33 00-0035 EA 90 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-90)	22,189.35	441.48
22 33 33 00-0036 EA 9 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-9)	8,439.37	588.64
22 33 33 00-0037 EA 12 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-12)	8,671.64	588.64
22 33 33 00-0038 EA 15 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-15)	8,888.42	588.64
22 33 33 00-0039 EA 18 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-18)	9,074.23	588.64
22 33 33 00-0040 EA 24 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-24)	10,715.57	588.64
22 33 33 00-0041 EA 30 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-30)	11,458.82	588.64
22 33 33 00-0042 EA 36 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-36)	12,171.10	588.64
22 33 33 00-0043 EA 45 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-45)	13,518.24	588.64
22 33 33 00-0044 EA 54 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-54)	14,091.16	588.64
22 33 33 00-0045 EA 60 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-60)	16,150.58	588.64
22 33 33 00-0046 EA 75 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-75)	18,798.40	588.64
22 33 33 00-0047 EA 90 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-90)	23,211.44	588.64
22 33 33 00-0048 EA 12 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-12)	9,438.16	662.22
22 33 33 00-0049 EA 15 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-15)	9,654.94	662.22
22 33 33 00-0050 EA 18 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-18)	9,840.76	662.22
22 33 33 00-0051 EA 24 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-24)	11,497.58	662.22
22 33 33 00-0052 EA 30 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-30)	12,163.41	662.22
22 33 33 00-0053 EA 36 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-36)	12,937.63	662.22
22 33 33 00-0054 EA 45 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-45)	14,284.76	662.22
22 33 33 00-0055 EA 54 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-54)	14,873.17	662.22
22 33 33 00-0056 EA 60 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-60)	16,808.71	662.22
22 33 33 00-0057 EA 75 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-75)	19,564.93	662.22
22 33 33 00-0058 EA 90 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-90)	23,977.97	662.22
22 33 33 00-0059 EA 15 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-15)	10,607.29	735.80
22 33 33 00-0060 EA 18 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-18)	10,855.04	735.80
22 33 33 00-0061 EA 24 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-24)	12,465.41	735.80
22 33 33 00-0062 EA 30 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-30)	13,208.66	735.80
22 33 33 00-0063 EA 36 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-36)	13,936.42	735.80
22 33 33 00-0064 EA 45 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-45)	15,252.59	735.80
22 33 33 00-0065 EA 54 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-54)	15,856.48	735.80
22 33 33 00-0066 EA 60 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-60)	17,884.93	735.80

22 Plumbing
22 30 Plumbing Equipment
22 33 Electric Domestic Water Heaters



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 33 00-0067 EA 75 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-75)	20,517.27	735.80
22 33 33 00-0068 EA 90 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-90)	24,961.28	735.80
22 33 33 00-0069 EA 15 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-15)	11,459.06	882.96
22 33 33 00-0070 EA 18 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-18)	11,675.84	882.96
22 33 33 00-0071 EA 24 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-24)	13,286.21	882.96
22 33 33 00-0072 EA 30 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-30)	13,998.49	882.96
22 33 33 00-0073 EA 36 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-36)	14,757.22	882.96
22 33 33 00-0074 EA 45 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-45)	16,073.39	882.96
22 33 33 00-0075 EA 54 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-54)	16,630.83	882.96
22 33 33 00-0076 EA 60 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-60)	18,721.22	882.96
22 33 33 00-0077 EA 75 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-75)	21,369.04	882.96
22 33 33 00-0078 EA 90 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-90)	25,766.60	882.96

22 33 33 00-0079 Standard Duty Electric Commercial Water Heaters (A.O. Smith DEL And DEN) (22 33 33)

Note: Includes glass lined tank, drain valve, and temperature and pressure relief valve.

22 33 33 00-0080 EA Up To 2.5 KW, 6 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-6S)	1,475.01	257.53
22 33 33 00-0081 EA Up To 6 KW, 10 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-10S)	1,572.56	257.53
22 33 33 00-0082 EA Up To 6 KW, 20 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-20S)	1,718.92	294.32
22 33 33 00-0083 EA Up To 12 KW, 30 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-30D)	2,833.79	294.32
22 33 33 00-0084 EA Up To 12 KW, 40 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-40D)	3,290.64	367.90
22 33 33 00-0085 EA Up To 12 KW, 50 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-50D)	3,670.07	441.48
22 33 33 00-0086 EA Up To 12 KW, 80 Gallon, Dual Element Standard Upright Electric Commercial Water Heater (DEN-80D)	4,480.07	662.22

22 33 33 00-0087 Water Heater Accessories (22 33 33)

22 33 33 00-0088 EA Up To 80 Gallon Water Heater Strap	51.58	
Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts		
22 33 33 00-0089 EA >80 To 120 Gallon Water Heater Strap	74.47	
Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts		

22 33 33 00-0090 Removal And Reinstallation Of Water Heater (22 33 33)

Note: Includes storage and cleaning.

22 33 33 00-0091 EA Removal And Reinstallation Of Water Heater Electric, Up To 82 Gallon	490.53	
22 33 33 00-0092 EA Removal And Reinstallation Of Water Heater Electric, 83 Gallon To 200 Gallon	1,471.60	

22 34 Fuel-Fired Domestic Water Heaters (22 30)

22 34 13 Instantaneous, Tankless, Gas Domestic Water Heaters (22 34)

22 34 13 00-0001 Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13)

22 34 13 00-0002 Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13 00-0001)

Note: Includes vent connection. Excludes vent.

22 34 13 00-0003 EA 4.2 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-42PVN)	1,618.77	294.32
22 34 13 00-0004 EA 5.3 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53PVN)	1,734.05	298.00
22 34 13 00-0005 EA 5.3 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53DVN)	1,886.12	305.35
22 34 13 00-0006 EA 6.6 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-66DVN)	2,165.58	312.71
22 34 13 00-0007 EA 7.4 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74PVN)	2,587.10	331.11
22 34 13 00-0008 EA 7.4 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74DVN)	2,636.15	331.11

22 34 13 00-0009 Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13 00-0001)

22 34 13 00-0010 EA 5.3 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53XN)	1,726.69	294.32
22 34 13 00-0011 EA 7.4 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74XN)	2,587.10	331.11

22 34 30 Residential Gas Domestic Water Heaters (22 34)

22 34 30 13 Residential, Atmospheric, Gas Domestic Water Heaters (22 34 30)

22 34 30 13-0001 Atmospheric, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 13)

Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.

22 34 30 13-0002 EA 30 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-30)	1,267.26	283.28
22 34 30 13-0003 EA 40 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-40)	1,255.50	290.64
22 34 30 13-0004 EA 50 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCVX-50)	1,592.57	298.00
22 34 30 13-0005 EA 65 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-65)	1,708.60	305.35
22 34 30 13-0006 EA 75 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-75)	1,847.82	312.71
22 34 30 13-0007 EA 100 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-100)	2,618.15	331.11

22 34 30 16 Residential, Direct-Vent, Gas Domestic Water Heaters (22 34 30)



Plumbing	22	22
Plumbing Equipment	22 30	
Fuel-Fired Domestic Water Heaters	22 34	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 30 16-0001 Direct-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) <small>(22 34 30 16)</small>		
Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 16-0002 EA 40 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-40)	2,119.24	290.64
22 34 30 16-0003 EA 50 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-50)	2,386.78	298.00
22 34 30 16-0004 EA 75 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-75)	3,032.59	305.35
22 34 30 19 Residential, Power-Vent, Gas Domestic Water Heaters <small>(22 34 30)</small>		
22 34 30 19-0001 Power-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) <small>(22 34 30 19)</small>		
Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 19-0002 EA 40 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-40)	1,948.49	290.64
22 34 30 19-0003 EA 50 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-50)	2,025.50	298.00
22 34 36 Commercial Gas Domestic Water Heaters <small>(22 34)</small>		
22 34 36 13 Commercial, Atmospheric, Gas Domestic Water Heaters <small>(22 34 36)</small>		
22 34 36 13-0001 Gas Fired Commercial Water Heaters (A.O. Smith BTR) <small>(22 34 36 13)</small>		
Note: Includes automatic flue damper, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 13-0002 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-120)	6,743.89	441.48
22 34 36 13-0003 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-154)	7,215.87	515.06
22 34 36 13-0004 EA 180 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-180)	8,909.41	588.64
22 34 36 13-0005 EA 199 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-199)	7,737.27	588.64
22 34 36 13-0006 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200)	8,861.53	588.64
22 34 36 13-0007 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200A)	11,764.33	647.51
22 34 36 13-0008 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250)	8,617.37	662.22
22 34 36 13-0009 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250A)	12,683.97	728.44
22 34 36 13-0010 EA 251 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251)	8,747.27	662.22
22 34 36 13-0011 EA 251 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251A)	12,111.78	728.44
22 34 36 13-0012 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275)	9,722.03	809.39
22 34 36 13-0013 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275A)	13,286.09	890.32
22 34 36 13-0014 EA 305 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305)	10,897.32	809.39
22 34 36 13-0015 EA 305 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305A)	13,363.41	890.32
22 34 36 13-0016 EA 365 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365)	10,580.62	882.96
22 34 36 13-0017 EA 365 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365A)	14,746.97	971.26
22 34 36 13-0018 EA 390 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400)	13,348.69	882.96
22 34 36 13-0019 EA 390 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400A)	17,406.84	971.26
22 34 36 13-0020 EA 500 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-500)	17,331.02	956.54
22 34 36 13-0021 EA 150 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151)	8,669.47	515.06
22 34 36 13-0022 EA 150 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151A)	10,380.77	566.57
22 34 36 13-0023 EA 199 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201)	9,033.13	588.64
22 34 36 13-0024 EA 199 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201A)	10,805.54	647.51
22 34 36 13-0025 EA Sidewall Power Vent System For BTR-120 through BTR-200	2,282.16	367.90
22 34 36 13-0026 EA Sidewall Power Vent System For BTR-250 through BTR-500	2,483.20	367.90
22 34 36 13-0027 Removal And Reinstallation Of Water Heater <small>(22 34 36 13)</small>		
Note: Includes storage and cleaning.		
22 34 36 13-0028 EA Removal And Reinstallation Of Water Heater Gas Fired, Up To 86 Gallon	668.91	
22 34 36 13-0029 EA Removal And Reinstallation Of Water Heater Gas Fired, 87 Gallon To 200 Gallon	1,768.75	
22 34 36 19 Commercial, Power-Vent, Gas Domestic Water Heaters <small>(22 34 36)</small>		
22 34 36 19-0001 Induced Draft Blower Gas Fired Commercial Water Heaters (A.O. Smith BTN) <small>(22 34 36 19)</small>		
Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0002 EA 90 MBH Input, 98 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-100)	5,522.20	441.48
22 34 36 19-0003 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-120)	7,826.40	441.48
22 34 36 19-0004 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-154)	9,535.47	515.06
22 34 36 19-0005 EA 180 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-180)	9,945.53	588.64
22 34 36 19-0006 EA 199 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-199)	9,991.92	588.64
22 34 36 19-0007 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200)	10,208.42	588.64
22 34 36 19-0008 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200A)	11,965.37	647.51

22 Plumbing**22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 19-0009 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250)	11,267.97	662.22
22 34 36 19-0010 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250A)	13,828.33	728.44
22 34 36 19-0011 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275)	11,856.12	809.39
22 34 36 19-0012 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275A)	14,492.31	890.32
22 34 36 19-0013 EA 310 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310) ...	12,103.55	809.39
22 34 36 19-0014 EA 310 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310A)	14,646.95	890.32
22 34 36 19-0015 EA 366 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366) ...	13,565.19	882.96
22 34 36 19-0016 EA 366 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366A)	15,922.26	971.26
22 34 36 19-0017 EA 390 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400) ...	16,364.25	882.96
22 34 36 19-0018 EA 390 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400A)	18,860.50	971.26
22 34 36 19-0019 Condensing Gas Fired Commercial Water Heaters (A.O. Smith BTX And BTH) ^(22 34 36 19)		
Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0020 EA 76 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-80)	4,315.98	441.48
22 34 36 19-0021 EA 100 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-100)	5,738.70	441.48
22 34 36 19-0022 EA 120 MBH Input, 60 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120)	6,914.00	441.48
22 34 36 19-0023 EA 120 MBH Input, 60 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120A)	9,909.61	485.63
22 34 36 19-0024 EA 150 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150)	10,154.05	515.06
22 34 36 19-0025 EA 150 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150A)	12,777.76	566.57
22 34 36 19-0026 EA 199 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199)	10,332.14	588.64
22 34 36 19-0027 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199A)	13,187.06	647.51
22 34 36 19-0028 EA 250 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250)	11,932.94	662.22
22 34 36 19-0029 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250A)	14,493.30	728.44
22 34 36 19-0030 EA 300 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-300A)	18,946.06	890.32
22 34 36 19-0031 EA 399.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-400A)	19,927.54	971.26
22 34 36 19-0032 EA 499.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-500A)	22,903.94	1,052.19
22 34 36 23 Commercial, High-Efficiency, Gas Domestic Water Heaters ^(22 34 36)		
22 34 36 23-0001 Gas Fired Domestic Hot Water Skid Package (Laars Mighty Therm) ^(22 34 36 23)		
Note: Includes (2) Laars Mighty Therm boilers, (2) B&G boiler primary pumps (one per boiler), T&P valve, circuit setter, storage tank (sized for 10 minutes buffer based on 50 degree city water supply, and operating set point for the tank at 130 degrees storage), and all necessary accessories for system monitoring such as gauges and thermometers. UL listed and labeled. Excludes piping insulation or seismic calculations.		
22 34 36 23-0002 EA 400 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-400)	92,289.83	1,835.48
22 34 36 23-0003 EA 1,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-1000)	111,570.38	1,950.20
22 34 36 23-0004 EA 2,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-2000)	135,545.03	2,064.92
22 34 36 23-0005 EA 3,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-3000)	162,020.09	2,179.64
22 34 36 23-0006 EA 4,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-4000)	169,824.35	2,294.35
22 34 36 23-0007 Gas Fired Volume Water Heater (Laars Mighty Therm) ^(22 34 36 23)		
22 34 36 23-0008 EA 200 MBH Gas Fired Volume Water Heater (Laars MT2V0200)	11,755.99	1,084.36
22 34 36 23-0009 EA 300 MBH Gas Fired Volume Water Heater (Laars MT2V0300)	12,766.44	1,219.91
22 34 36 23-0010 EA 400 MBH Gas Fired Volume Water Heater (Laars MT2V0400)	14,803.58	1,491.01
22 34 36 23-0011 EA 500 MBH Gas Fired Volume Water Heater (Laars MT2V0500)	21,424.21	1,626.55
22 34 36 23-0012 EA 750 MBH Gas Fired Volume Water Heater (Laars MT2V0750)	23,593.39	1,897.64
22 34 36 23-0013 EA 1,000 MBH Gas Fired Volume Water Heater (Laars MT2V1000)	26,987.37	2,168.73
22 34 36 23-0014 EA 1,250 MBH Gas Fired Volume Water Heater (Laars MT2V1250)	29,824.82	2,439.82
22 34 36 23-0015 EA 1,500 MBH Gas Fired Volume Water Heater (Laars MT2V1500)	35,601.39	2,710.92
22 34 36 23-0016 EA 1,750 MBH Gas Fired Volume Water Heater (Laars MT2V1750)	36,951.06	2,846.45
22 34 36 23-0017 EA 2,000 MBH Gas Fired Volume Water Heater (Laars MT2V2000)	39,620.99	2,982.00
22 34 36 26 Commercial, Coil-Type, Finned-Tube, Gas Domestic Water Heaters ^(22 34 36)		
22 34 36 26-0001 Laars Rheos+ 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heaters ^(22 34 36 26)		
22 34 36 26-0002 EA 1,200 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	38,257.18	2,060.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 26-0003 EA 1,600 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	53,810.70	2,277.17
22 34 36 26-0004 EA 2,000 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	58,359.14	2,385.60
22 34 36 26-0005 EA 2,400 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	63,216.03	2,602.47
22 34 36 26-0006 Laars Rheos 86% Efficient Gas Fired, Copper Fin Tube LoNox Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0007 EA 1,200 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	34,010.68	2,060.29
22 34 36 26-0008 EA 1,600 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	37,573.32	2,277.17
22 34 36 26-0009 EA 2,000 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	41,038.63	2,385.60
22 34 36 26-0010 EA 2,400 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	44,591.52	2,602.47
22 34 36 26-0011 Laars Pennant 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0012 EA 200 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	8,894.82	975.93
22 34 36 26-0013 EA 300 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	9,789.50	1,084.36
22 34 36 26-0014 EA 400 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	11,507.37	1,301.24
22 34 36 26-0015 EA 500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	16,055.06	1,355.46
22 34 36 26-0016 EA 750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	17,736.36	1,626.55
22 34 36 26-0017 EA 1,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	21,854.28	1,951.86
22 34 36 26-0018 EA 1,250 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	24,785.30	2,060.29
22 34 36 26-0019 EA 1,500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	27,450.79	2,222.95
22 34 36 26-0020 EA 1,750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	29,930.38	2,331.39
22 34 36 26-0021 EA 2,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	32,081.19	2,385.60
22 34 36 26-0022 Patterson Kelley Thermifc Sealed Combustion, Gas Fired, Copper Fin Tube Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0023 EA 700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermifc).....	24,859.44	1,626.55
22 34 36 26-0024 EA 1,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermifc).....	27,478.17	1,951.86
22 34 36 26-0025 EA 1,500 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermifc).....	32,847.42	2,222.95
22 34 36 26-0026 EA 1,700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermifc).....	33,876.05	2,331.39
22 34 36 26-0027 EA 2,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermifc).....	35,413.44	2,385.60
22 34 36 26-0028 Patterson Kelley Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0029 EA 1,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire).....	29,896.80	1,951.86
22 34 36 26-0030 EA 1,500 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire).....	36,056.81	2,222.95
22 34 36 26-0031 EA 2,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire).....	38,284.82	2,385.60
22 34 46 Oil-Fired Domestic Water Heaters <small>(22 34)</small>		
22 34 46 11 Standard-capacity, Oil-Fired Domestic Water Heaters <small>(22 34 46)</small>		
22 34 46 11-0001 Oil-Fired Domestic Water Heaters (Bock) <small>(22 34 46 11)</small>		
Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 46 11-0002 EA 60 MBH, 20 Gallon, Oil-Fired Domestic Water Heater (Bock 20E).....	2,287.82	226.63
22 34 46 11-0003 EA 104 MBH, 32 Gallon, Oil-Fired Domestic Water Heater (Bock 32E).....	2,257.59	226.63
22 34 46 11-0004 EA 104 MBH, 33 Gallon, Oil-Fired Domestic Water Heater (Bock 33ES).....	2,354.72	226.63
22 34 46 11-0005 EA 125 MBH, 40 Gallon, Oil-Fired Domestic Water Heater (Bock 40E).....	2,485.18	232.51
22 34 46 11-0006 EA 140 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 50ES).....	3,150.50	238.40
22 34 46 11-0007 EA 152 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 51E).....	2,670.19	238.40
22 34 46 11-0008 Oil Fired Commercial Water Heaters <small>(22 34 46 11)</small>		
Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 46 11-0009 EA 173 MBH, 68 Gallon, Oil-Fired Commercial Water Heater (Bock 71E).....	3,705.26	353.18
22 34 46 11-0010 EA 199 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 72E).....	4,337.61	353.18
22 34 46 11-0011 EA 242 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 73E).....	4,361.94	353.18
22 34 46 11-0012 EA 190 MBH, 113 Gallon, Oil-Fired Commercial Water Heater (Bock 120E).....	6,274.12	470.91
22 34 46 11-0013 EA 415 MBH, 91 Gallon, Oil-Fired Commercial Water Heater (Bock 361E).....	8,593.79	588.64
22 34 46 11-0014 EA 623 MBH, 83 Gallon, Oil-Fired Commercial Water Heater (Bock 541E).....	10,796.71	647.51
22 35 Domestic Water Heat Exchangers <small>(22 30)</small>		
22 35 23 Circulating, Domestic Water Heat Exchangers <small>(22 35)</small>		
22 35 23 13 Circulating, Compact Domestic Water Heat Exchangers <small>(22 35 23)</small>		
22 35 23 13-0001 Steam Driven Water Heaters <small>(22 35 23 13)</small>		

22 Plumbing**22 30 Plumbing Equipment****22 35 Domestic Water Heat Exchangers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 35 23	13-0002		Constant Flow <small>(22 35 23 13-0001)</small>		
22 35 23	13-0003	EA	30 GPM, 700 LB/Hour Steam Water Heater, Constant Flow	6,566.00	735.80
22 35 23	13-0004	EA	90 GPM, 1,250 LB/Hour Steam Water Heater, Constant Flow	8,192.09	901.65
22 35 23	13-0005	EA	140 GPM, 2,500 LB/Hour Steam Water Heater, Constant Flow	10,509.38	1,179.20
22 35 23	13-0006	EA	230 GPM, 5,000 LB/Hour Steam Water Heater, Constant Flow	14,244.67	1,642.46
22 35 23	13-0007	EA	500 GPM, 7,500 LB/Hour Steam Water Heater, Constant Flow	21,161.64	2,705.10
22 35 23	13-0008	EA	900 GPM, 10,000 LB/Hour Steam Water Heater, Constant Flow	23,122.20	3,065.79
22 35 23	13-0009	EA	1,400 GPM, 15,000 LB/Hour Steam Water Heater, Constant Flow	30,096.20	3,537.44
22 35 23	13-0010	EA	2,400 GPM, 20,000 LB/Hour Steam Water Heater, Constant Flow	36,174.06	4,180.68
22 35 23	13-0011		Variable Flow <small>(22 35 23 13-0001)</small>		
22 35 23	13-0012	EA	30 GPM, 700 LB/Hour Steam Water Heater, Variable Flow	10,056.98	1,434.81
22 35 23	13-0013	EA	90 GPM, 1,250 LB/Hour Steam Water Heater, Variable Flow	11,462.10	1,751.94
22 35 23	13-0014	EA	140 GPM, 2,500 LB/Hour Steam Water Heater, Variable Flow	14,636.99	2,265.38
22 35 23	13-0015	EA	230 GPM, 5,000 LB/Hour Steam Water Heater, Variable Flow	19,291.40	3,160.71
22 35 23	13-0016	EA	500 GPM, 7,500 LB/Hour Steam Water Heater, Variable Flow	29,076.94	5,286.00
22 35 23	13-0017	EA	900 GPM, 10,000 LB/Hour Steam Water Heater, Variable Flow	35,076.68	5,821.23
22 35 23	13-0018	EA	1,400 GPM, 15,000 LB/Hour Steam Water Heater, Variable Flow	40,667.59	6,812.94
22 35 23	13-0019	EA	2,400 GPM, 20,000 LB/Hour Steam Water Heater, Variable Flow	51,251.19	8,139.44

END OF SECTION 22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 Heating, Ventilating, and Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

23 01 Operation and Maintenance of HVAC Systems ⁽²³⁾

23 01 10 Operation and Maintenance of Facility Fuel Systems ^(23 01)

23 01 10 91 Facility Fuel Systems Restoration ^(23 01 10)

23 01 10 91-0001 Purge Gas Systems ^(23 01 10 91)

Note: Includes collection and refilling/bleeding of system. For natural gas, flammable gases and other gases that should not be released inside the building. See CSI section 23 01 60 71-0001 for refrigerant.

23 01 10 91-0002	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	679.58
23 01 10 91-0003	EA	>100' To 250', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	970.55
23 01 10 91-0004	EA	>250' To 500', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,018.72
23 01 10 91-0005	EA	>500' To 1,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,123.01
23 01 10 91-0006	EA	>1,000' To 2,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	2,033.68
23 01 10 91-0007	EA	Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	912.81
23 01 10 91-0008	EA	>100' To 250', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,310.62
23 01 10 91-0009	EA	>250' To 500', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,385.03
23 01 10 91-0010	EA	>500' To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,545.39
23 01 10 91-0011	EA	>1,000' To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	2,807.67
23 01 10 91-0012	EA	Up To 100', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,076.64
23 01 10 91-0013	EA	>100' To 250', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,578.66
23 01 10 91-0014	EA	>250' To 500', >4" To 10" Diameter Pipe, Purge Gas Systems.....	3,642.91
23 01 10 91-0015	EA	>500' To 1,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	5,677.41
23 01 10 91-0016	EA	>1,000' To 2,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	10,662.49

23 01 20 Operation and Maintenance of HVAC Piping and Pumps ^(23 01)

23 01 20 91 HVAC Piping and Pumps Restoration ^(23 01 20)

23 01 20 91-0001 Lock Out/Tag Out System ^(23 01 20 91)

23 01 20 91-0002	EA	Up To 1", Lock Out/Tag Out Valve.....	36.79
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0003	EA	>1" To 3", Lock Out/Tag Out Valve.....	44.15
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0004	EA	>3" To 6", Lock Out/Tag Out Valve.....	51.51
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0005	EA	>6" To 10", Lock Out/Tag Out Valve.....	58.87
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0006	EA	>10" To 14", Lock Out/Tag Out Valve.....	73.58
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0007	EA	Lock Out Padlock.....	14.72
23 01 20 91-0008	EA	Lock Out Tags.....	5.25

23 01 20 91-0009 Freeze Pipe Using CO2 Kit ^(23 01 20 91)

Note: For use on chilled water or cold water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0010	EA	Up To 2" Freeze Pipe Using CO2 Kit.....	392.50
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23 01 20 91-0011 Pipe Freezing ^(23 01 20 91)

Note: For use on any water piping systems. Excludes excavation, cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0012	EA	Up To 1" Pipe Freezing, First Location.....	856.00
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0013	EA	Up To 1" Pipe Freezing, Each Additional Location After First.....	431.47
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0014	EA	>1" To 1-1/2" Pipe Freezing, First Location.....	1,037.09
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0015	EA	>1" To 1-1/2" Pipe Freezing, Each Additional Location After First.....	497.08
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0016	EA	>1-1/2" To 2" Pipe Freezing, First Location.....	1,438.32
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0017	EA	>1-1/2" To 2" Pipe Freezing, Each Additional Location After First.....	562.88
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0018	EA	>2" To 3" Pipe Freezing, First Location.....	1,641.41
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0019	EA	>2" To 3" Pipe Freezing, Each Additional Location After First.....	665.89
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0020	EA	>3" To 4" Pipe Freezing, First Location.....	2,421.81
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0021	EA	>3" To 4" Pipe Freezing, Each Additional Location After First.....	767.72
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0022	EA	>4" To 6" Pipe Freezing, First Location.....	5,055.36
		Note: Includes freezing on each side of valve or fitting.	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0023 EA >4" To 6" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	1,023.50	
23 01 20 91-0024 EA >6" To 8" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	6,725.17	
23 01 20 91-0025 EA >6" To 8" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	1,517.62	
23 01 20 91-0026 EA >8" To 10" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	9,292.49	
23 01 20 91-0027 EA >8" To 10" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	2,083.30	
23 01 20 91-0028 EA >10" To 12" Pipe Freezing, First Location..... Note: Includes freezing on each side of valve or fitting.	11,974.90	
23 01 20 91-0029 EA >10" To 12" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	2,720.08	
23 01 20 91-0030 Water/Chlorine Pipe Disinfection/Flush/Testing (23 01 20 91) Note: For existing piping when required. Water/chlorine solution per specification entitled "Water Distribution".		
23 01 20 91-0031 LF Up To 1", Water/Chlorine Pipe Disinfection/Flush/Testing <i>For >250 To 500, Deduct</i> <i>For >500 To 2000, Deduct</i> <i>For >2000, Deduct</i>	2.44 -0.18 -0.46 -0.67	
23 01 20 91-0032 LF >1" To 2", Water/Chlorine Pipe Disinfection/Flush/Testing <i>For >250 To 500, Deduct</i> <i>For >500 To 2000, Deduct</i> <i>For >2000, Deduct</i>	3.35 -0.25 -0.61 -0.89	
23 01 20 91-0033 LF >2" To 3", Water/Chlorine Pipe Disinfection/Flush/Testing <i>For >250 To 500, Deduct</i> <i>For >500 To 2000, Deduct</i> <i>For >2000, Deduct</i>	5.15 -0.37 -0.92 -1.33	
23 01 20 91-0034 LF 4", Water/Chlorine Pipe Disinfection/Flush/Testing <i>For >250 To 500, Deduct</i> <i>For >500 To 2000, Deduct</i> <i>For >2000, Deduct</i>	7.11 -0.49 -1.23 -1.78	
23 01 20 91-0035 LF 6", Water/Chlorine Pipe Disinfection/Flush/Testing <i>For >250 To 500, Deduct</i> <i>For >500 To 2000, Deduct</i> <i>For >2000, Deduct</i>	8.76 -0.59 -1.47 -2.13	
23 01 20 91-0036 LF 8", Water/Chlorine Pipe Disinfection/Flush/Testing <i>For >250 To 500, Deduct</i> <i>For >500 To 2000, Deduct</i> <i>For >2000, Deduct</i>	11.09 -0.74 -1.84 -2.67	
23 01 20 91-0037 LF 10", Water/Chlorine Pipe Disinfection/Flush/Testing <i>For >250 To 500, Deduct</i> <i>For >500 To 2000, Deduct</i> <i>For >2000, Deduct</i>	14.59 -0.98 -2.45 -3.56	
23 01 20 91-0038 LF 12", Water/Chlorine Pipe Disinfection/Flush/Testing <i>For >250 To 500, Deduct</i> <i>For >500 To 2000, Deduct</i> <i>For >2000, Deduct</i>	17.52 -1.18 -2.94 -4.27	
23 01 20 91-0039 Shut Down Existing Piping System (23 01 20 91)		
23 01 20 91-0040 EA Shut Down Existing Interior Piping System Note: Includes lock out/tag out and average line tracing. Use when valves are greater than 25' from work. When the shut-off valves for multiple lines are located with a 10' radius, the quantity used shall be one.	299.83	
23 01 20 91-0041 Purge Liquid Systems (23 01 20 91) Note: Includes collection of liquid, refilling with liquid and bleeding of air from system.		
23 01 20 91-0042 EA Up To 50', Up To 3/4" Diameter Pipe, Purge Liquid System	232.59	
23 01 20 91-0043 EA >50' To 100', Up To 3/4" Diameter Pipe, Purge Liquid System	290.74	
23 01 20 91-0044 EA >100 To 250', Up To 3/4" Diameter Pipe, Purge Liquid System	414.97	
23 01 20 91-0045 EA >250 To 500', Up To 3/4" Diameter Pipe, Purge Liquid System	497.26	
23 01 20 91-0046 EA >500 To 1,000', Up To 3/4" Diameter Pipe, Purge Liquid System	621.58	
23 01 20 91-0047 EA >1,000 To 2,000', Up To 3/4" Diameter Pipe, Purge Liquid System	808.06	
23 01 20 91-0048 LF >2,000', Up To 3/4" Diameter Pipe, Purge Liquid System	0.40	
23 01 20 91-0049 EA Up To 100', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	484.36	
23 01 20 91-0050 EA >100 To 250', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	691.76	
23 01 20 91-0051 EA >250 To 500', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	828.87	
23 01 20 91-0052 EA >500 To 1,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	1,036.08	
23 01 20 91-0053 EA >1,000 To 2,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	1,346.91	
23 01 20 91-0054 LF >2,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	0.67	
23 01 20 91-0055 EA Up To 100', >1-1/2" To 3" Diameter Pipe, Purge Liquid System	678.11	
23 01 20 91-0056 EA >100 To 250', >1-1/2" To 3" Diameter Pipe, Purge Liquid System	968.48	
23 01 20 91-0057 EA >250 To 500', >1-1/2" To 3" Diameter Pipe, Purge Liquid System	1,160.42	
23 01 20 91-0058 EA >500 To 1,000', >1-1/2" To 3" Diameter Pipe, Purge Liquid System	1,450.51	
23 01 20 91-0059 EA >1,000 To 2,000', >1-1/2" To 3" Diameter Pipe, Purge Liquid System	1,885.67	
23 01 20 91-0060 LF >2,000', >1-1/2" To 3" Diameter Pipe, Purge Liquid System	0.95	
23 01 20 91-0061 EA Up To 100', >3" To 6" Diameter Pipe, Purge Liquid System	932.39	
23 01 20 91-0062 EA >100 To 250', >3" To 6" Diameter Pipe, Purge Liquid System	1,331.65	
23 01 20 91-0063 EA >250 To 500', >3" To 6" Diameter Pipe, Purge Liquid System	1,413.62	
23 01 20 91-0064 EA >500 To 1,000', >3" To 6" Diameter Pipe, Purge Liquid System	1,767.02	
23 01 20 91-0065 EA >1,000 To 2,000', >3" To 6" Diameter Pipe, Purge Liquid System	2,297.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0066 LF >2,000', >3" To 6" Diameter Pipe, Purge Liquid System.....	1.15	
23 01 20 91-0067 EA Up To 100', >6" To 10" Diameter Pipe, Purge Liquid System	1,258.74	
23 01 20 91-0068 EA >100 To 250', >6" To 10" Diameter Pipe, Purge Liquid System	1,797.72	
23 01 20 91-0069 EA >250 To 500', >6" To 10" Diameter Pipe, Purge Liquid System	1,908.38	
23 01 20 91-0070 EA >500 To 1,000', >6" To 10" Diameter Pipe, Purge Liquid System	2,385.46	
23 01 20 91-0071 EA >1,000 To 2,000', >6" To 10" Diameter Pipe, Purge Liquid System	3,101.12	
23 01 20 91-0072 LF >2,000', >6" To 10" Diameter Pipe, Purge Liquid System.....	1.55	
23 01 20 91-0073 Special Cleaning Of Piping Systems (23 01 20 91)		
23 01 20 91-0074 Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing (23 01 20 91-0073)		
23 01 20 91-0075 LF Up To 1", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing.....	3.06	
For >250 To 500, Deduct	-0.21	
For >500 To 2000, Deduct	-0.52	
For >2000, Deduct	-0.76	
23 01 20 91-0076 LF >1" To 2", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing.....	5.10	
For >250 To 500, Deduct	-0.34	
For >500 To 2000, Deduct	-0.85	
For >2000, Deduct	-1.23	
23 01 20 91-0077 LF >2" To 3", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing.....	7.15	
For >250 To 500, Deduct	-0.47	
For >500 To 2000, Deduct	-1.17	
For >2000, Deduct	-1.69	
23 01 20 91-0078 LF >3" To 4", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing.....	9.25	
For >250 To 500, Deduct	-0.60	
For >500 To 2000, Deduct	-1.50	
For >2000, Deduct	-2.18	
23 01 20 91-0079 LF >4" To 6", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing.....	12.84	
For >250 To 500, Deduct	-0.84	
For >500 To 2000, Deduct	-2.10	
For >2000, Deduct	-3.05	
23 01 20 91-0080 Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing (23 01 20 91-0073)		
23 01 20 91-0081 LF Up To 1", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing.....	3.29	
For >250 To 500, Deduct	-0.21	
For >500 To 2000, Deduct	-0.52	
For >2000, Deduct	-0.76	
23 01 20 91-0082 LF >1" To 2", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing.....	5.39	
For >250 To 500, Deduct	-0.34	
For >500 To 2000, Deduct	-0.85	
For >2000, Deduct	-1.23	
23 01 20 91-0083 LF >2" To 3", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing.....	7.56	
For >250 To 500, Deduct	-0.47	
For >500 To 2000, Deduct	-1.17	
For >2000, Deduct	-1.69	
23 01 20 91-0084 LF >3" To 4", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing.....	9.86	
For >250 To 500, Deduct	-0.60	
For >500 To 2000, Deduct	-1.50	
For >2000, Deduct	-2.18	
23 01 20 91-0085 LF >4" To 6", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing.....	13.65	
For >250 To 500, Deduct	-0.84	
For >500 To 2000, Deduct	-2.10	
For >2000, Deduct	-3.05	
23 01 20 91-0086 Drewspers 4945/4395 Pipe Disinfection/Flush/Testing (23 01 20 91-0073)		
23 01 20 91-0087 LF Up To 1", Drewspers 4945/4395 Pipe Disinfection/Flush/Testing.....	3.36	
For >250 To 500, Deduct	-0.21	
For >500 To 2000, Deduct	-0.52	
For >2000, Deduct	-0.76	
23 01 20 91-0088 LF >1" To 2", Drewspers 4945/4395 Pipe Disinfection/Flush/Testing.....	5.51	
For >250 To 500, Deduct	-0.34	
For >500 To 2000, Deduct	-0.85	
For >2000, Deduct	-1.23	
23 01 20 91-0089 LF >2" To 3", Drewspers 4945/4395 Pipe Disinfection/Flush/Testing.....	7.73	
For >250 To 500, Deduct	-0.47	
For >500 To 2000, Deduct	-1.17	
For >2000, Deduct	-1.69	
23 01 20 91-0090 LF >3" To 4", Drewspers 4945/4395 Pipe Disinfection/Flush/Testing.....	10.10	
For >250 To 500, Deduct	-0.60	
For >500 To 2000, Deduct	-1.50	
For >2000, Deduct	-2.18	
23 01 20 91-0091 LF >4" To 6", Drewspers 4945/4395 Pipe Disinfection/Flush/Testing.....	13.96	
For >250 To 500, Deduct	-0.84	
For >500 To 2000, Deduct	-2.10	
For >2000, Deduct	-3.05	
23 01 20 91-0092 Add-A-Valve Emergency Shut Off Device (23 01 20 91)		
23 01 20 91-0093 EA 1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-103ADD)	392.26	
23 01 20 91-0094 EA 3/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-104ADD)	493.26	
23 01 20 91-0095 EA 1" Add-A-Valve Emergency Shut Off Device (Jomar 800-105ADD)	680.68	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 01 20 91-0096	EA	1-1/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-106ADD)	1,035.61
23 01 20 91-0097	EA	1-1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-107ADD)	1,276.74
23 01 20 91-0098	EA	2" Add-A-Valve Emergency Shut Off Device (Jomar 800-108ADD)	1,920.38

23 01 30 Operation and Maintenance of HVAC Air Distribution (23 01)**23 01 30 51 HVAC Air-Distribution System Cleaning (23 01 30)****23 01 30 51-0001 Cleaning Of Ductwork And HVAC Equipment (23 01 30 51)**

23 01 30 51-0002	LF	Up To 2 SF Cross Section, Clean Supply/Return Ductwork	4.52
		Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.	
		<i>For Exhaust Ductwork, Add</i>	1.13
23 01 30 51-0003	LF	>2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork	5.66
		Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.	
		<i>For Exhaust Ductwork, Add</i>	1.42
23 01 30 51-0004	LF	>4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork	7.59
		Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.	
		<i>For Exhaust Ductwork, Add</i>	1.90
23 01 30 51-0005	LF	>8 SF Cross Section, Clean Supply/Return Ductwork	10.74
		Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.	
		<i>For Exhaust Ductwork, Add</i>	2.69
23 01 30 51-0006	SF	Clean Duct Dampers	15.22
23 01 30 51-0007	SF	Clean Duct Fire Dampers	30.43
23 01 30 51-0008	SF	Clean Louver	12.18
23 01 30 51-0009	EA	Clean Turning Vane Set	36.53
23 01 30 51-0010	EA	Clean Grille/Diffuser/Register	36.53
		Note: Includes removal and reinstallation.	
23 01 30 51-0011	LF	Clean Linear Diffuser	9.13
		Note: Includes removal and reinstallation.	
23 01 30 51-0012	EA	Cut Access For Cleaning Duct And Install Duct Insulated Access Doors	125.51
		<i>For Stainless Steel, Add</i>	86.86
23 01 30 51-0013	EA	Clean Variable Air Volume (VAV) Unit	109.58
23 01 30 51-0014	EA	Clean Fan Powered Induction Unit (PIU) Unit	146.10
23 01 30 51-0015	EA	Clean Fan Coil Unit (FCU)	146.10
23 01 30 51-0016	EA	Clean Packaged Terminal Air Conditioning Unit	146.10
23 01 30 51-0017	EA	Clean Supply Or Return Fan	292.21
23 01 30 51-0018	EA	Clean Exhaust Fan	255.69
23 01 30 51-0019	EA	Clean Duct Coil	219.16
23 01 30 51-0020	SF	Clean Air Handling Unit Interior Housing With High Efficiency Particulate Air (HEPA) Vacuum	7.31
		Note: Excluding fan and coils.	
23 01 30 51-0021	EA	Clean Air Handling Unit Fan	292.21
23 01 30 51-0022	EA	Clean Air Handling Unit Coil	438.32
23 01 30 51-0023	SF	Clean Equipment Surfaces, Rust Reform And Prime	3.81
23 01 30 51-0024	SF	Clean Interior Equipment Surfaces, Rust Reform And Prime	4.53
23 01 30 51-0025	SF	High Efficiency Particulate Air (HEPA) Vacuuming Of Walls, Ceilings And Floors In Mechanical Rooms	0.62
23 01 30 51-0026	EA	Cleaning Of Ductwork Minimum Set-up Charge	994.66
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
23 01 30 51-0027	SF	Apply Antimicrobial Agent To Ductwork And Surfaces After Cleaning	0.64

23 01 30 61 HVAC Air-Distribution Duct Repair (23 01 30)**23 01 30 61-0001 Repair And Seal Ductwork (23 01 30 61)**

Note: Includes removal of existing insulation, repair/seal ductwork with Duct Sealer and reinstallation of insulation. Excludes new ductwork.

23 01 30 61-0002	SF	Repair And Sealing Of Ductwork	2.56
		Note: Clean, apply sealant and tape	

23 01 50 Operation and Maintenance of Central Heating Equipment (23 01)**23 01 50 61 Central Heating Equipment Repair (23 01 50)****23 01 50 61-0001 Boiler Repairs (23 01 50 61)****23 01 50 61-0002 Setup And Maintenance (23 01 50 61-0001)**

23 01 50 61-0003	EA	Set-up Charge For Boiler Fire Side Maintenance	3,024.67
		Note: Includes removing/relocating doors, plates, portals, and burners required to access fireside.	
23 01 50 61-0004	EA	Close-up Charge For Boiler Fire Side Maintenance	3,252.72
		Note: Includes replacement of doors, plates, portals, burners, adhesive, rope, wool, and seals.	
		<i>For Burner Seals, Add</i>	702.47
		Note: Used when burner must be removed from door for maintenance.	
23 01 50 61-0005	EA	Setup Charge For Boiler Water Side Maintenance	4,032.90
		Note: Includes closing valves, draining, and positioning equipment needed for tube replacement.	
23 01 50 61-0006	EA	Up To 100 HP, Hydrostatic Test - Boiler Maintenance	2,016.45
		Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 50 61-0007 EA >100 HP, Hydrostatic Test - Boiler Maintenance Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.	4,032.90	
23 01 50 61-0008 EA Removal And Replacement Of Handhole	126.03	
23 01 50 61-0009 EA Removal And Replacement Of Manhole	378.08	
23 01 50 61-0010 SF Sheet Metal Jacket Patch	13.88	
23 01 50 61-0011 Boiler Tube Replacement (23 01 50 61-0001)		
23 01 50 61-0012 EA Removal Of Up To 2" Boiler Tube	302.47	
23 01 50 61-0013 EA Removal Of >2" To 3" Boiler Tube	378.09	
23 01 50 61-0014 EA Removal Of >3" To 4" Boiler Tube	529.31	
23 01 50 61-0015 LF Place 1-1/2" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	10.87	
23 01 50 61-0016 LF Place 2" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	12.64	
23 01 50 61-0017 LF Place 2-1/2" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	14.44	
23 01 50 61-0018 LF Place 3" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	20.62	
23 01 50 61-0019 LF Place 3-1/2" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	24.15	
23 01 50 61-0020 LF Place 4" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	30.85	
23 01 50 61-0021 EA 1-1/2" Rolled Boiler Tube Termination (2 Per New Tube)	37.81	
23 01 50 61-0022 EA 2" Rolled Boiler Tube Termination (2 Per New Tube)	56.72	
23 01 50 61-0023 EA 2-1/2" Rolled Boiler Tube Termination (2 Per New Tube)	75.62	
23 01 50 61-0024 EA 3" Rolled Boiler Tube Termination (2 Per New Tube)	94.53	
23 01 50 61-0025 EA 3-1/2" Rolled Boiler Tube Termination (2 Per New Tube)	113.42	
23 01 50 61-0026 EA 4" Rolled Boiler Tube Termination (2 Per New Tube)	132.33	
23 01 50 61-0027 EA 1-1/2" Welded Boiler Tube Termination (2 Per New Tube)	113.42	
23 01 50 61-0028 EA 2" Welded Boiler Tube Termination (2 Per New Tube)	151.23	
23 01 50 61-0029 EA 2-1/2" Welded Boiler Tube Termination (2 Per New Tube)	189.04	
23 01 50 61-0030 EA 3" Welded Boiler Tube Termination (2 Per New Tube)	226.85	
23 01 50 61-0031 EA 3-1/2" Welded Boiler Tube Termination (2 Per New Tube)	264.66	
23 01 50 61-0032 EA 4" Welded Boiler Tube Termination (2 Per New Tube)	302.47	
23 01 50 61-0033 EA Plug Boiler Tube Hole Where Boiler Tube Is Not Replaced	398.48	
23 01 50 61-0034 Cast Iron Boiler Section Replacement (23 01 50 61-0001)		
23 01 50 61-0035 EA Removal And Replacement Of Front Section Of Weil McLain Model 80 Cast Iron Boiler	3,080.75	
23 01 50 61-0036 EA Removal And Replacement Of Rear Section Of Weil McLain Model 80 Cast Iron Boiler	2,043.77	
23 01 50 61-0037 EA Removal And Replacement Of Inside Section Of Weil McLain Model 80 Cast Iron Boiler	2,718.32	
23 01 50 61-0038 EA Removal And Replacement Of Front Section Of Weil McLain Model 88 Cast Iron Boiler	5,532.98	
23 01 50 61-0039 EA Removal And Replacement Of Rear Section Of Weil McLain Model 88 Cast Iron Boiler	3,935.79	
23 01 50 61-0040 EA Removal And Replacement Of Inside Section Of Weil McLain Model 88 Cast Iron Boiler	4,839.74	
23 01 50 61-0041 EA Removal And Replacement Of Front Section Of Weil McLain Model 94 Cast Iron Boiler	8,798.69	
23 01 50 61-0042 EA Removal And Replacement Of Rear Section Of Weil McLain Model 94 Cast Iron Boiler	6,621.01	
23 01 50 61-0043 EA Removal And Replacement Of Inside Section Of Weil McLain Model 94 Cast Iron Boiler	7,481.54	
23 01 50 61-0044 Cast Iron Grate Replacement (23 01 50 61-0001)		
23 01 50 61-0045 SF Removal And Replacement Of Cast Iron Boiler Grates, Prepared From Casting Mold Note: Includes support, linkages and removal of existing.	152.00	
23 01 50 61-0046 EA Prepare Cast Iron Boiler Grate Mold	2,086.40	
		Note: Includes preparing unique size mold for grate casting. Mold to be used for multiple castings.
23 01 50 61-0047 Replacement Or Conversion Of Boiler Burners (23 01 50 61-0001)		
		Note: Includes mounting plate, mechanical and electrical labor for installation of burners.
23 01 50 61-0048 EA 700 MBH Max Input Burner With 2" Boiler Connection, Screwed	10,828.60	1,444.40
23 01 50 61-0049 EA 2,100 MBH Max Input Burner With 2-1/2" Boiler Connection, Screwed	15,536.52	1,788.27
23 01 50 61-0050 EA 2,800 MBH Max Input Burner With 3" Boiler Connection, Screwed	18,367.65	2,166.44
23 01 50 61-0051 EA 3,800 MBH Max Input Burner With 4" Boiler Connection, Flanged	21,599.11	2,331.11
23 01 50 61-0052 Boiler And Chiller Water Treatment (23 01 50 61)		
		Note: 3 LB chemical per 50 gallon system water.
23 01 50 61-0053 LB Boil Out Boiler And System With Caustic Soda Note: Includes disposal after treatment.	1.63	
23 01 50 61-0054 LB Boil Out Boiler And System With Trisodium Phosphate	2.44	
		Note: Includes disposal after treatment.
23 01 50 61-0055 GAL Corrosion Resistant Chemical Treatment, Based On Gallons Of Chemical Required	152.67	

23 01 60 Operation and Maintenance of Central Cooling Equipment (23 01)

23 01 60 61 Central Cooling Equipment Repair (23 01 60)

23 01 60 61-0001 Cooling Tower Repairs (23 01 60 61)

23 01 60 61-0002 EA Replace 6' Diameter 4 Blade, Cooling Tower Fan Blade	3,436.35	
23 01 60 61-0003 EA Replace 6' Diameter 5 Blade, Cooling Tower Fan Blade	4,042.85	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 60 Operation and Maintenance of Central Cooling Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 01 60 61-0004	EA	Replace 6' Diameter 6 Blade, Cooling Tower Fan Blade	4,644.90	
23 01 60 61-0005	EA	Replace 6' Diameter 7 Blade, Cooling Tower Fan Blade	5,479.40	
23 01 60 61-0006	EA	Replace 6' Diameter 8 Blade, Cooling Tower Fan Blade	6,034.98	
23 01 60 61-0007	EA	Replace 8' Diameter 4 Blade, Cooling Tower Fan Blade	3,800.75	
23 01 60 61-0008	EA	Replace 8' Diameter 5 Blade, Cooling Tower Fan Blade	4,225.72	
23 01 60 61-0009	EA	Replace 8' Diameter 6 Blade, Cooling Tower Fan Blade	4,956.16	
23 01 60 61-0010	EA	Replace 8' Diameter 7 Blade, Cooling Tower Fan Blade	5,642.34	
23 01 60 61-0011	EA	Replace 8' Diameter 8 Blade, Cooling Tower Fan Blade	6,211.22	
23 01 60 61-0012	EA	Replace Individual Cooling Tower Fan Blade For 6' Diameter Fan.....	942.08	
23 01 60 61-0013	EA	Replace Individual Cooling Tower Fan Blade For 8' Diameter Fan.....	979.98	
23 01 60 61-0014	EA	Replace Individual Cooling Tower Fan Blade For 10' Diameter Fan.....	1,048.89	
23 01 60 61-0015	EA	Replace Individual Cooling Tower Fan Blade For 12' Diameter Fan.....	1,221.82	
23 01 60 61-0016	EA	Replace Individual Cooling Tower Fan Blade For 14' Diameter Fan.....	1,512.05	
23 01 60 61-0017	EA	Replace Individual Cooling Tower Fan Blade For 16' Diameter Fan.....	2,039.14	
23 01 60 61-0018	EA	Replace Individual Cooling Tower Fan Blade For 18' Diameter Fan.....	2,145.66	
23 01 60 61-0019	EA	Replace Individual Cooling Tower Fan Blade For 20' Diameter Fan.....	2,305.44	
23 01 60 61-0020	EA	Replace Counterflow Nozzle (1/2" - 2" NPT Thread)	47.33	
23 01 60 61-0021	EA	Replace 6' Polyvinyl Chloride (PVC) Splash Fill	29.86	

23 01 60 71 Refrigerant Recovery/Recycling (23 01 60)**23 01 60 71-0001 Refrigerant Recovery, Reclaim And Recycling** (23 01 60 71)

23 01 60 71-0002	LB	Recovery Of Refrigerant	15.56	
23 01 60 71-0003	LB	Recovery And Recharging Of Refrigerant.....	29.19	

Note: Includes cleaning refrigerant gas prior to recharging.

23 05 Common Work Results for HVAC (23)**23 05 13 Common Motor Requirements for HVAC Equipment** (23 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor.

23 05 13 00-0001 Premium Efficient, Motors (23 05 13)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. Excludes installation. See CSI section 23 05 13 00-0216 for installation.

23 05 13 00-0002 Premium Efficient, Open Drip Proof Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, open drip proof, three phase AC motors.

23 05 13 00-0003 Steel Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)

23 05 13 00-0004	EA	1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	692.93	
23 05 13 00-0005	EA	1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	784.62	
23 05 13 00-0006	EA	1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	919.90	
23 05 13 00-0007	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	772.59	
23 05 13 00-0008	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	820.69	
23 05 13 00-0009	EA	1-1/2 HP, 1,200 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,076.22	
23 05 13 00-0010	EA	2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	907.87	
23 05 13 00-0011	EA	2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	879.31	
23 05 13 00-0012	EA	2 HP, 1,200 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,100.27	
23 05 13 00-0013	EA	3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	919.90	
23 05 13 00-0014	EA	3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	948.46	
23 05 13 00-0015	EA	3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,400.89	
23 05 13 00-0016	EA	5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,004.07	
23 05 13 00-0017	EA	5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,038.64	
23 05 13 00-0018	EA	5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,835.29	
23 05 13 00-0019	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,593.29	
23 05 13 00-0020	EA	7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,527.15	
23 05 13 00-0021	EA	7-1/2 HP, 1,200 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,200.54	
23 05 13 00-0022	EA	10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,821.76	
23 05 13 00-0023	EA	10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,848.81	
23 05 13 00-0024	EA	10 HP, 1,200 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,863.41	
23 05 13 00-0025	EA	15 HP, 3,600 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,588.34	
23 05 13 00-0026	EA	15 HP, 1,800 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,618.40	
23 05 13 00-0027	EA	15 HP, 1,200 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,861.46	
23 05 13 00-0028	EA	20 HP, 3,600 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,040.77	
23 05 13 00-0029	EA	20 HP, 1,800 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,287.28	
23 05 13 00-0030	EA	20 HP, 1,200 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,700.19	
23 05 13 00-0031	EA	25 HP, 3,600 RPM, 284TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,651.03	
23 05 13 00-0032	EA	25 HP, 1,800 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,007.26	
23 05 13 00-0033	EA	25 HP, 1,200 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,677.21	
23 05 13 00-0034	EA	30 HP, 3,600 RPM, 286TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,307.88	
23 05 13 00-0035	EA	30 HP, 1,800 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,381.54	
23 05 13 00-0036	EA	30 HP, 1,200 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,922.21	
23 05 13 00-0037	EA	40 HP, 3,600 RPM, 324TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,550.95	
23 05 13 00-0038	EA	40 HP, 1,800 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,716.29	
23 05 13 00-0039	EA	50 HP, 3,600 RPM, 326TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	6,045.47	
23 05 13 00-0040	EA	50 HP, 1,800 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	6,308.51	
23 05 13 00-0041	EA	60 HP, 3,600 RPM, 364TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	7,649.28	
23 05 13 00-0042	EA	60 HP, 1,800 RPM, 364T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	7,942.38	
23 05 13 00-0043	EA	75 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	10,034.70	
23 05 13 00-0044	EA	75 HP, 1,800 RPM, 365T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	9,749.11	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 05 13 00-0045	EA		100 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	10,726.12	
	23 05 13 00-0046	EA		100 HP, 1,800 RPM, 404T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	11,342.39	
	23 05 13 00-0047	EA		125 HP, 3,600 RPM, 404TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	13,461.76	
	23 05 13 00-0048	EA		125 HP, 1,800 RPM, 405T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	13,914.20	
	23 05 13 00-0049	EA		150 HP, 3,600 RPM, 405TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	16,606.25	
23 05 13 00-0050	Cast Iron Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)					
	23 05 13 00-0051	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	8,436.90	
	23 05 13 00-0052	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	10,213.56	
	23 05 13 00-0053	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	12,967.24	
	23 05 13 00-0054	EA		75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	14,437.28	
	23 05 13 00-0055	EA		100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	15,890.77	
	23 05 13 00-0056	EA		125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	17,160.89	
	23 05 13 00-0057	EA		150 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	15,456.38	
	23 05 13 00-0058	EA		150 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	20,210.68	
	23 05 13 00-0059	EA		200 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	18,818.81	
	23 05 13 00-0060	EA		200 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	19,314.84	
	23 05 13 00-0061	EA		200 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	26,567.29	
23 05 13 00-0062	Premium Efficient, TEFC Motors (23 05 13 00-0001)					
	Note: NEMA premium efficiency, totally enclosed fan cooled, three phase AC motors.					
23 05 13 00-0063	Steel Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)					
	23 05 13 00-0064	EA		1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, TEFC Motor.....	810.17	
	23 05 13 00-0065	EA		1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	892.84	
	23 05 13 00-0066	EA		1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,062.69	
	23 05 13 00-0067	EA		1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,918.39	
	23 05 13 00-0068	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	927.41	
	23 05 13 00-0069	EA		2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,005.57	
	23 05 13 00-0070	EA		2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	961.98	
	23 05 13 00-0071	EA		3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,115.30	
	23 05 13 00-0072	EA		3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,062.69	
	23 05 13 00-0073	EA		3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,706.02	
	23 05 13 00-0074	EA		5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,237.05	
	23 05 13 00-0075	EA		5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,163.40	
	23 05 13 00-0076	EA		5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,926.97	
	23 05 13 00-0077	EA		7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,853.32	
	23 05 13 00-0078	EA		7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,677.46	
	23 05 13 00-0079	EA		10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,878.88	
	23 05 13 00-0080	EA		10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,893.91	
23 05 13 00-0081	Cast Iron Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)					
	23 05 13 00-0082	EA		1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,155.88	
	23 05 13 00-0083	EA		1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,294.17	
	23 05 13 00-0084	EA		1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,220.52	
	23 05 13 00-0085	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,197.97	
	23 05 13 00-0086	EA		1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,540.68	
	23 05 13 00-0087	EA		2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,283.65	
	23 05 13 00-0088	EA		2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,255.09	
	23 05 13 00-0089	EA		2 HP, 1,200 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,564.73	
	23 05 13 00-0090	EA		3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,385.86	
	23 05 13 00-0091	EA		3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,424.94	
	23 05 13 00-0092	EA		3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,949.52	
	23 05 13 00-0093	EA		5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,706.02	
	23 05 13 00-0094	EA		5 HP, 1,800 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,426.44	
	23 05 13 00-0095	EA		5 HP, 1,200 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	2,262.17	
	23 05 13 00-0096	EA		7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,975.07	
	23 05 13 00-0097	EA		7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,902.92	
	23 05 13 00-0098	EA		7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	3,225.65	
	23 05 13 00-0099	EA		10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	2,314.77	
	23 05 13 00-0100	EA		10 HP, 1,800 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	2,134.40	
	23 05 13 00-0101	EA		10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	3,682.60	
	23 05 13 00-0102	EA		15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	3,189.58	
	23 05 13 00-0103	EA		15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	2,919.02	
	23 05 13 00-0104	EA		15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	4,912.13	
	23 05 13 00-0105	EA		20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	3,500.72	
	23 05 13 00-0106	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	3,539.80	
	23 05 13 00-0107	EA		20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	6,539.99	
	23 05 13 00-0108	EA		25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	4,567.92	
	23 05 13 00-0109	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	4,629.55	
	23 05 13 00-0110	EA		25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	7,399.76	
	23 05 13 00-0111	EA		30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	5,427.69	
	23 05 13 00-0112	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	5,492.33	
	23 05 13 00-0113	EA		30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	8,548.13	
	23 05 13 00-0114	EA		40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	7,440.34	
	23 05 13 00-0115	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	7,181.81	
	23 05 13 00-0116	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	10,652.47	
	23 05 13 00-0117	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	8,139.29	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 13 Common Motor Requirements for HVAC Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 05 13 00-0118	EA	50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,849.19	
23 05 13 00-0119	EA	50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	12,872.55	
23 05 13 00-0120	EA	60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,434.08	
23 05 13 00-0121	EA	60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,294.29	
23 05 13 00-0122	EA	60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	15,624.72	
23 05 13 00-0123	EA	75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	13,302.44	
23 05 13 00-0124	EA	75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	13,206.24	
23 05 13 00-0125	EA	75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	18,195.03	
23 05 13 00-0126	EA	100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	16,400.32	
23 05 13 00-0127	EA	125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	20,303.87	
23 05 13 00-0128	EA	150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	23,355.17	
23 05 13 00-0129	EA	200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	29,352.54	

23 05 13 00-0130**Premium Efficient, Severe Duty Motors (23 05 13 00-0001)**

Note: NEMA premium efficiency, TEFC enclosure severe duty, three phase AC motors.

23 05 13 00-0131	EA	1 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,200.98	
23 05 13 00-0132	EA	1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,319.72	
23 05 13 00-0133	EA	1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,458.01	
23 05 13 00-0134	EA	1 HP, 900 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,048.73	
23 05 13 00-0135	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,366.32	
23 05 13 00-0136	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,345.27	
23 05 13 00-0137	EA	1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,706.02	
23 05 13 00-0138	EA	1-1/2 HP, 900 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,549.26	
23 05 13 00-0139	EA	2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,429.45	
23 05 13 00-0140	EA	2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,403.90	
23 05 13 00-0141	EA	2 HP, 1,200 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,728.56	
23 05 13 00-0142	EA	2 HP, 900 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,215.13	
23 05 13 00-0143	EA	3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,690.99	
23 05 13 00-0144	EA	3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,776.66	
23 05 13 00-0145	EA	3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,495.15	
23 05 13 00-0146	EA	3 HP, 900 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,487.19	
23 05 13 00-0147	EA	5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,080.29	
23 05 13 00-0148	EA	5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,808.23	
23 05 13 00-0149	EA	5 HP, 1,200 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,528.21	
23 05 13 00-0150	EA	5 HP, 900 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,550.95	
23 05 13 00-0151	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,714.60	
23 05 13 00-0152	EA	7-1/2 HP, 1,800 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,277.20	
23 05 13 00-0153	EA	7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,617.96	
23 05 13 00-0154	EA	7-1/2 HP, 900 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,347.59	
23 05 13 00-0155	EA	10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,890.46	
23 05 13 00-0156	EA	10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,726.62	
23 05 13 00-0157	EA	10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,700.19	
23 05 13 00-0158	EA	10 HP, 900 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,404.27	
23 05 13 00-0159	EA	15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,697.63	
23 05 13 00-0160	EA	15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,473.66	
23 05 13 00-0161	EA	15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,388.61	
23 05 13 00-0162	EA	15 HP, 900 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	9,884.39	
23 05 13 00-0163	EA	20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,313.90	
23 05 13 00-0164	EA	20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,726.18	
23 05 13 00-0165	EA	20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,321.60	
23 05 13 00-0166	EA	20 HP, 900 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	11,268.74	
23 05 13 00-0167	EA	25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,184.19	
23 05 13 00-0168	EA	25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,876.06	
23 05 13 00-0169	EA	25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,650.78	
23 05 13 00-0170	EA	30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,320.54	
23 05 13 00-0171	EA	30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,789.94	
23 05 13 00-0172	EA	30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	9,863.34	
23 05 13 00-0173	EA	40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,683.41	
23 05 13 00-0174	EA	40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,575.62	
23 05 13 00-0175	EA	40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	12,293.85	
23 05 13 00-0176	EA	50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	9,099.77	
23 05 13 00-0177	EA	50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,892.34	
23 05 13 00-0178	EA	50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	13,095.01	
23 05 13 00-0179	EA	60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	13,206.24	
23 05 13 00-0180	EA	60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	11,918.08	
23 05 13 00-0181	EA	60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	17,886.89	
23 05 13 00-0182	EA	75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	14,763.45	
23 05 13 00-0183	EA	75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	13,926.22	
23 05 13 00-0184	EA	75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	21,769.40	
23 05 13 00-0185	EA	100 HP, 3,600 RPM, 405TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	18,557.27	
23 05 13 00-0186	EA	100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	18,280.70	
23 05 13 00-0187	EA	100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	23,944.38	
23 05 13 00-0188	EA	125 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	21,805.47	
23 05 13 00-0189	EA	125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	21,611.57	
23 05 13 00-0190	EA	125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	27,049.79	
23 05 13 00-0191	EA	150 HP, 3,600 RPM, 445TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	25,563.22	
23 05 13 00-0192	EA	150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	25,318.22	
23 05 13 00-0193	EA	150 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	30,497.90	
23 05 13 00-0194	EA	200 HP, 3,600 RPM, 447TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	30,270.93	
23 05 13 00-0195	EA	200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	30,457.32	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 05 13 00-0196	EA			200 HP, 1,200 RPM, 449T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	39,949.39	
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23 05 13 00-0197 Premium Efficient, Explosion Proof Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, explosion proof, three phase AC motors.

23 05 13 00-0198	EA			1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	1,602.30	
23 05 13 00-0199	EA			1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	1,659.42	
23 05 13 00-0200	EA			2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	1,809.73	
23 05 13 00-0201	EA			3 HP, 1,800 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	2,236.61	
23 05 13 00-0202	EA			5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	2,480.12	
23 05 13 00-0203	EA			7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	3,418.05	
23 05 13 00-0204	EA			10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	3,488.70	
23 05 13 00-0205	EA			15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	4,722.74	
23 05 13 00-0206	EA			20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	5,384.10	
23 05 13 00-0207	EA			25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	7,073.59	
23 05 13 00-0208	EA			30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	7,939.37	
23 05 13 00-0209	EA			40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	10,381.91	
23 05 13 00-0210	EA			50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	11,692.61	
23 05 13 00-0211	EA			60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	16,356.73	
23 05 13 00-0212	EA			75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	19,202.10	
23 05 13 00-0213	EA			100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	23,391.24	
23 05 13 00-0214	EA			125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	30,573.05	
23 05 13 00-0215	EA			150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	34,883.94	

23 05 13 00-0216 Motor Mounting (23 05 13)

Note: Includes handling and motor installation on mounting base. Excludes mounting base.

23 05 13 00-0217	EA			1/2 HP Motor Mounting.....	232.55	118.32
23 05 13 00-0218	EA			3/4 HP Motor Mounting.....	267.95	147.91
23 05 13 00-0219	EA			1 HP Motor Mounting.....	286.63	147.91
23 05 13 00-0220	EA			1-1/2 HP Motor Mounting.....	308.13	147.91
23 05 13 00-0221	EA			2 HP Motor Mounting.....	333.11	177.48
23 05 13 00-0222	EA			3 HP Motor Mounting.....	385.17	177.48
23 05 13 00-0223	EA			5 HP Motor Mounting.....	456.49	295.81
23 05 13 00-0224	EA			7-1/2 HP Motor Mounting.....	586.91	295.81
23 05 13 00-0225	EA			10 HP Motor Mounting.....	770.33	517.66
23 05 13 00-0226	EA			15 HP Motor Mounting.....	948.10	517.66
23 05 13 00-0227	EA			20 HP Motor Mounting.....	1,120.48	739.52
23 05 13 00-0228	EA			25 HP Motor Mounting.....	1,270.64	739.52
23 05 13 00-0229	EA			30 HP Motor Mounting.....	1,540.66	739.52
23 05 13 00-0230	EA			40 HP Motor Mounting.....	1,735.95	1,109.27
23 05 13 00-0231	EA			50 HP Motor Mounting.....	1,925.82	1,109.27
23 05 13 00-0232	EA			75 HP Motor Mounting.....	2,325.52	1,626.94
23 05 13 00-0233	EA			100 HP Motor Mounting.....	2,801.19	1,626.94
23 05 13 00-0234	EA			125 HP Motor Mounting.....	3,423.68	2,218.55
23 05 13 00-0235	EA			150 HP Motor Mounting.....	3,975.89	2,218.55
23 05 13 00-0236	EA			200 HP Motor Mounting.....	4,564.91	2,662.25

23 05 16 Expansion Fittings and Loops for HVAC Piping (23 05)

23 05 16 00-0001 Stainless Steel Bellows Type Expansion Joints (23 05 16)

Note: Includes internal sleeves and external covers.

23 05 16 00-0002 Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)

Note: Carbon steel ends. Includes internal sleeves and external covers.

23 05 16 00-0003	EA			1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	338.22	118.65
				<i>For 300 LB Rating, Add</i>	<i>25.20</i>	
23 05 16 00-0004	EA			3/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	377.85	133.81
				<i>For 300 LB Rating, Add</i>	<i>27.60</i>	
23 05 16 00-0005	EA			1" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	450.63	153.39
				<i>For 300 LB Rating, Add</i>	<i>35.99</i>	
23 05 16 00-0006	EA			1-1/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	514.79	171.21
				<i>For 300 LB Rating, Add</i>	<i>43.19</i>	
23 05 16 00-0007	EA			1-1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	559.86	184.01
				<i>For 300 LB Rating, Add</i>	<i>47.96</i>	
23 05 16 00-0008	EA			2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	634.41	216.54
				<i>For 300 LB Rating, Add</i>	<i>50.36</i>	

23 05 16 00-0009 Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)

Note: Carbon steel ends. Includes internal sleeves and external covers.

23 05 16 00-0010	EA			1-1/4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	517.49	118.60
				<i>For 300 LB Rating, Add</i>	<i>92.54</i>	
23 05 16 00-0011	EA			1-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	572.71	142.32
				<i>For 300 LB Rating, Add</i>	<i>98.59</i>	
23 05 16 00-0012	EA			2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	620.34	180.68
				<i>For 300 LB Rating, Add</i>	<i>98.61</i>	
23 05 16 00-0013	EA			2-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	670.09	196.54
				<i>For 300 LB Rating, Add</i>	<i>105.91</i>	
23 05 16 00-0014	EA			3" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	746.19	230.43
				<i>For 300 LB Rating, Add</i>	<i>114.45</i>	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 16 Expansion Fittings and Loops for HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 16 00-0015 EA 4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint	977.92	386.30
For 300 LB Rating, Add	123.46	
23 05 16 00-0016 EA 5" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint	1,263.66	422.56
For 300 LB Rating, Add	184.07	
23 05 16 00-0017 EA 6" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint	1,219.55	469.52
For 300 LB Rating, Add	157.64	
23 05 16 00-0018 EA 8" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint	1,562.58	599.93
For 300 LB Rating, Add	204.33	
23 05 16 00-0019 EA 10" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint	1,970.17	730.35
For 300 LB Rating, Add	264.31	
23 05 16 00-0020 EA 12" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint	2,541.97	553.24
For 300 LB Rating, Add	358.51	
23 05 16 00-0021 EA 14" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint	3,183.46	1,043.36
For 300 LB Rating, Add	469.82	
23 05 16 00-0022 EA 16" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint	3,989.23	1,147.69
For 300 LB Rating, Add	638.66	

23 05 16 00-0023 Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)

Note: Carbon steel ends. Includes internal sleeves and external covers.

23 05 16 00-0024 EA 1-1/4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	622.51	162.66
For 300 LB Rating, Add	74.33	
23 05 16 00-0025 EA 1-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	644.79	164.01
For 300 LB Rating, Add	79.19	
23 05 16 00-0026 EA 2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	656.00	169.43
For 300 LB Rating, Add	79.20	
23 05 16 00-0027 EA 2-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	710.21	184.75
For 300 LB Rating, Add	85.07	
23 05 16 00-0028 EA 3" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	803.46	217.28
For 300 LB Rating, Add	92.12	
23 05 16 00-0029 EA 4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	1,261.08	432.66
For 300 LB Rating, Add	99.16	
23 05 16 00-0030 EA 5" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	1,472.57	441.73
For 300 LB Rating, Add	147.84	
23 05 16 00-0031 EA 6" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	1,483.91	489.08
For 300 LB Rating, Add	126.62	
23 05 16 00-0032 EA 8" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	1,772.52	558.85
For 300 LB Rating, Add	164.12	
23 05 16 00-0033 EA 10" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	2,215.84	684.70
For 300 LB Rating, Add	212.29	
23 05 16 00-0034 EA 12" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	2,811.69	829.99
For 300 LB Rating, Add	287.95	
23 05 16 00-0035 EA 14" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	3,258.47	845.12
For 300 LB Rating, Add	391.96	
23 05 16 00-0036 EA 16" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	4,244.58	1,056.39
For 300 LB Rating, Add	532.83	

23 05 17 Sleeves and Sleeve Seals for HVAC Piping (23 05)

23 05 17 00-0001 Wall Seals And Sleeves (23 05 17)
Note: Up to 12" walls. Excludes drilling hole.

23 05 17 00-0002 Ductile Iron Wall Sleeve (23 05 17 00-0001)
Note: Includes rubber gasket seal.

23 05 17 00-0003 EA 3" Ductile Iron Wall Sleeve With Rubber Gasket Seal	151.11	64.49
23 05 17 00-0004 EA 4" Ductile Iron Wall Sleeve With Rubber Gasket Seal	184.13	75.33
23 05 17 00-0005 EA 6" Ductile Iron Wall Sleeve With Rubber Gasket Seal	224.20	90.37
23 05 17 00-0006 EA 8" Ductile Iron Wall Sleeve With Rubber Gasket Seal	322.22	135.49
23 05 17 00-0007 EA 10" Ductile Iron Wall Sleeve With Rubber Gasket Seal	417.84	180.60
23 05 17 00-0008 EA 12" Ductile Iron Wall Sleeve With Rubber Gasket Seal	516.76	225.86

23 05 17 00-0009 Steel Pipe Sleeves (23 05 17 00-0001)
Note: Includes link seals 12" length.

23 05 17 00-0010 EA 2" Steel Pipe Sleeve With Link Seals	170.67	65.25
23 05 17 00-0011 EA 2-1/2" Steel Pipe Sleeve With Link Seals	207.20	70.73
23 05 17 00-0012 EA 3" Steel Pipe Sleeve With Link Seals	242.27	76.22
23 05 17 00-0013 EA 4" Steel Pipe Sleeve With Link Seals	297.80	91.43
23 05 17 00-0014 EA 6" Steel Pipe Sleeve With Link Seals	424.51	114.19
23 05 17 00-0015 EA 10" Steel Pipe Sleeve With Link Seals	790.29	137.08
23 05 17 00-0016 EA 13-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	935.75	171.34
23 05 17 00-0017 EA 17-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	1,246.25	210.83
23 05 17 00-0018 EA 23-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	1,707.44	274.15
23 05 17 00-0019 EA 29-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	1,844.10	342.70

23 05 19 Meters and Gages for HVAC Piping (23 05)

23 05 19 00-0001 Thermometers (23 05 19)

23 05 19 00-0002 Dial Type, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometers
(23 05 19 00-0001)
Note: Various ranges.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0003 EA 2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	130.40	47.11
23 05 19 00-0004 EA 2-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	148.76	47.11
23 05 19 00-0005 EA 3-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	148.76	47.11
23 05 19 00-0006 Liquid Filled Industrial Union Connection Type Thermometers (23 05 19 00-0001)		
Note: Various ranges.		
23 05 19 00-0007 EA 7" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	167.12	47.11
23 05 19 00-0008 EA 9" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	167.12	47.11
23 05 19 00-0009 EA 12" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	205.52	47.11
23 05 19 00-0010 EA 7" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	172.13	47.11
23 05 19 00-0011 EA 9" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	180.48	47.11
23 05 19 00-0012 EA 12" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	210.53	47.11
23 05 19 00-0013 Liquid Filled Industrial Separable Socket Type Thermometers (23 05 19 00-0001)		
Note: Various ranges. Socket connection for thermowell.		
23 05 19 00-0014 EA 7" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	167.12	47.11
23 05 19 00-0015 EA 9" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	167.12	47.11
23 05 19 00-0016 EA 12" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	205.52	47.11
23 05 19 00-0017 EA 7" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	188.83	47.11
23 05 19 00-0018 EA 9" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	205.52	47.11
23 05 19 00-0019 EA 12" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	209.78	47.11
23 05 19 00-0020 1" NPT, 304 Stainless Steel Thermowells (23 05 19 00-0001)		
23 05 19 00-0021 EA 4" Long, 1" NPT, 304 Stainless Steel Thermowell	199.42	88.32
23 05 19 00-0022 EA 8" Long, 1" NPT, 304 Stainless Steel Thermowell	199.35	88.32
23 05 19 00-0023 Pressure Gauges (23 05 19)		
23 05 19 00-0024 Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)		
23 05 19 00-0025 EA 2" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	47.48	18.40
23 05 19 00-0026 EA 4" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	57.33	18.40
23 05 19 00-0027 Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)		
23 05 19 00-0028 EA 3-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	304.76	18.40
23 05 19 00-0029 EA 4-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	304.76	18.40
23 05 19 00-0030 EA 6" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	395.76	18.40
23 05 19 00-0031 EA 8-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	931.68	18.40
23 05 19 00-0032 Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)		
Note: Liquid filled.		
23 05 19 00-0033 EA 2-1/2" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	149.82	18.40
23 05 19 00-0034 EA 4" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	330.55	18.40
23 05 19 00-0035 Steel Case, 0 To 10K PSI High Pressure, Pressure Gauges (23 05 19 00-0023)		
23 05 19 00-0036 EA 4-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	335.63	18.40
23 05 19 00-0037 EA 6-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	335.63	18.40
23 05 19 00-0038 EA 8-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	335.63	18.40
23 05 19 00-0039 Gauge Accessories (23 05 19 00-0023)		
23 05 19 00-0040 EA Pete's Plug (Valve Cock For Removable Pressure Gauge Or Thermometer)	95.34	14.72
23 05 19 00-0041 EA 1/4" Snubber Valve	63.32	14.72
23 05 19 00-0042 EA 1/4" Female Pipe Thread, Brass Gauge Cock	40.63	22.09
23 05 19 00-0043 EA 1/4" Male Pipe Thread, Brass Gauge Cock	36.16	22.09
23 05 19 00-0044 EA 1/4" Pressure Pigtail Steam Siphon	41.35	22.09
23 05 19 00-0045 EA 1/4" x 3" Long Black Steel Nipple	8.73	7.36
23 05 19 00-0046 EA 1/4" Steel Thread-O-Let	84.86	36.80
23 05 19 00-0047 EA 1/4", 300 LB, Black Steel Union	103.66	14.72
23 05 19 00-0048 EA 1/4" Black Steel Coupling	32.19	14.72
23 05 19 00-0049 EA 1/4", 300 LB, Black Steel Plug	18.29	8.83
23 05 19 00-0050 EA 1/4", 150 LB, Black Steel Cap	19.21	8.83
23 05 19 00-0051 LF 1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe	10.50	4.86
23 05 19 00-0052 LF 1/4" Schedule 80, Plain End, Black Steel Pipe	9.73	4.86
23 05 19 00-0053 LF 1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe	9.85	
23 05 19 00-0054 EA 1/4" Threaded, 800 LB, Forged Steel, Ball Valve	115.29	
23 05 19 00-0055 Valve Lock Covers (23 05 19)		
23 05 19 00-0056 EA Valve Lock Cover	93.52	22.52
23 05 19 00-0057 Venturi Flowmeters (23 05 19)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 19 Meters and Gages for HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0058 Threaded, Brass, Venturi Flowmeters (23 05 19 00-0057)		
23 05 19 00-0059 EA 3/4" Threaded, Brass, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i>	310.13 995.00	100.10
23 05 19 00-0060 EA 1" Threaded, Brass, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i>	345.87 995.00	120.12
23 05 19 00-0061 EA 1-1/4" Threaded, Brass, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i>	381.80 995.00	133.52
23 05 19 00-0062 EA 1-1/2" Threaded, Brass, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i>	430.23 995.00	150.16
23 05 19 00-0063 EA 2" Threaded, Brass, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i>	509.68 995.00	171.65
23 05 19 00-0064 EA 2-1/2" Threaded, Brass, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i>	674.17 995.00	214.44
23 05 19 00-0065 Butt Weld, Carbon Steel, Venturi Flowmeters (23 05 19 00-0057)		
23 05 19 00-0066 EA 3" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	1,404.53 995.00 347.66	205.62
23 05 19 00-0067 EA 4" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	1,917.21 995.00 498.31	246.74
23 05 19 00-0068 EA 5" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	2,504.11 995.00 660.54	308.43
23 05 19 00-0069 EA 6" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	3,007.72 995.00 764.84	411.23
23 05 19 00-0070 EA 8" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	4,331.06 995.00 1,170.44	493.48
23 05 19 00-0071 EA 10" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	6,961.71 995.00 2,004.80	616.85
23 05 19 00-0072 EA 12" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	10,263.77 995.00 3,036.18	794.49
23 05 19 00-0073 EA 14" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	14,435.48 995.00 4,218.20	1,191.74
23 05 19 00-0074 EA 16" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	21,355.40 995.00 6,547.48	1,324.15
23 05 19 00-0075 Turbine Flowmeter (23 05 19)		
23 05 19 00-0076 EA Saddle Mount Turbine Flowmeter.....	971.65	110.41
23 05 19 00-0077 Sight Flow Indicator (23 05 19)		
23 05 19 00-0078 Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0079 EA 1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	176.13	21.43
23 05 19 00-0080 EA 3/8" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	184.03	22.55
23 05 19 00-0081 EA 1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	198.83	23.70
23 05 19 00-0082 EA 3/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	224.37	31.93
23 05 19 00-0083 EA 1" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	268.35	38.70
23 05 19 00-0084 EA 1-1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	305.94	49.00
23 05 19 00-0085 EA 1-1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	429.46	56.65
23 05 19 00-0086 EA 2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	477.15	66.96
23 05 19 00-0087 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0088 EA 1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	226.96	21.43
23 05 19 00-0089 EA 3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	233.73	22.55
23 05 19 00-0090 EA 1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	251.92	23.70
23 05 19 00-0091 EA 3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	269.55	31.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0092 EA 1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300)	287.55	38.70
23 05 19 00-0093 EA 1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300)	313.84	49.00
23 05 19 00-0094 EA 1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300)	583.07	56.65
23 05 19 00-0095 EA 2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300)	626.24	66.96
23 05 19 00-0096 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0097 EA 1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	325.23	21.43
23 05 19 00-0098 EA 3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	343.29	22.55
23 05 19 00-0099 EA 1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	372.78	23.70
23 05 19 00-0100 EA 3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	407.35	31.93
23 05 19 00-0101 EA 1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	468.27	38.70
23 05 19 00-0102 EA 1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	497.95	49.00
23 05 19 00-0103 EA 1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	989.69	56.65
23 05 19 00-0104 EA 2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	1,044.16	66.96
23 05 19 00-0105 Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0106 EA 1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	223.57	21.43
23 05 19 00-0107 EA 3/8" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	232.60	22.55
23 05 19 00-0108 EA 1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	246.27	23.70
23 05 19 00-0109 EA 3/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	268.42	31.93
23 05 19 00-0110 EA 1" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	286.42	38.70
23 05 19 00-0111 EA 1-1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	313.84	49.00
23 05 19 00-0112 EA 1-1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	576.30	56.65
23 05 19 00-0113 EA 2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	617.21	66.96
23 05 19 00-0114 Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0115 EA 1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	322.97	21.43
23 05 19 00-0116 EA 3/8" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	347.81	22.55
23 05 19 00-0117 EA 1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	379.55	23.70
23 05 19 00-0118 EA 3/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	407.35	31.93
23 05 19 00-0119 EA 1" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	468.27	38.70
23 05 19 00-0120 EA 1-1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	502.47	49.00
23 05 19 00-0121 EA 1-1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	989.69	56.65
23 05 19 00-0122 EA 2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	1,044.16	66.96
23 05 19 00-0123 Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0124 EA 1" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	477.30	38.70
23 05 19 00-0125 EA 1-1/4" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	538.61	49.00
23 05 19 00-0126 EA 1-1/2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	612.44	56.65
23 05 19 00-0127 EA 2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	689.49	66.96
23 05 19 00-0128 Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0129 EA 1-1/2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	1,054.87	154.52
23 05 19 00-0130 EA 2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	1,183.32	196.17
23 05 19 00-0131 EA 3" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	1,730.08	230.33
23 05 19 00-0132 EA 4" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	2,619.21	386.13
23 05 19 00-0133 EA 6" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	4,168.16	437.38
23 05 19 00-0134 Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0135 EA 1" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	807.49	110.37
23 05 19 00-0136 EA 1-1/4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	952.87	128.76
23 05 19 00-0137 EA 1-1/2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,031.72	154.52
23 05 19 00-0138 EA 2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,293.45	196.17
23 05 19 00-0139 EA 3" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,865.05	230.33
23 05 19 00-0140 EA 4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	2,765.48	386.13

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 19 Meters and Gages for HVAC Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 05 19 00-0141 Water Flow Switches (23 05 19)

23 05 19 00-0142	EA Flexible Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BF-1)	308.19	43.38
23 05 19 00-0143	EA Rigid Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BR-1)	318.52	43.38
23 05 19 00-0144	EA Flexible Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BF-1)	405.76	43.38
23 05 19 00-0145	EA Rigid Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BR-1)	418.97	43.38
23 05 19 00-0146	EA Flexible Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BF-1)	331.73	43.38
23 05 19 00-0147	EA Rigid Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BR-1)	343.77	43.38
23 05 19 00-0148	EA Flexible Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BF-1)	429.31	43.38
23 05 19 00-0149	EA Rigid Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BR-1)	441.35	43.38
23 05 19 00-0150	EA Flexible Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SF-1)	829.32	43.38
23 05 19 00-0151	EA Rigid Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SR-1)	841.00	43.38
23 05 19 00-0152	EA Flexible Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SF-1)	951.90	43.38
23 05 19 00-0153	EA Rigid Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SR-1)	967.95	43.38
23 05 19 00-0154	EA Flexible Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SF-1)	857.05	43.38
23 05 19 00-0155	EA Rigid Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SR-1)	873.10	43.38
23 05 19 00-0156	EA Flexible Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SF-1)	979.63	43.38
23 05 19 00-0157	EA Rigid Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SR-1)	997.14	43.38

23 05 23 General-Duty Valves For HVAC Piping (23 05)

Note: Flanged valves exclude bolt and gasket sets. See CSI section 22 05 23 00-0000 for additional valves, 23 21 13 23-0669 for bolt and gasket sets.

23 05 23 00-0001 Gate Valves (23 05 23)

23 05 23 00-0002 Class 125 Threaded, Bronze Gate Valves (23 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure.

23 05 23 00-0003	EA 1/4" Diameter, 125 LB, Threaded Bronze Gate Valve	73.65	14.72
	<i>For Work In Restricted Working Space, Add</i>	12.86	
	<i>For 150 LB Rating, Add</i>	3.08	
	<i>For 200 LB Rating, Add</i>	4.62	
	<i>For 250 LB Rating, Add</i>	7.70	
	<i>For 300 LB Rating, Add</i>	10.78	
23 05 23 00-0004	EA 3/8" Diameter, 125 LB, Threaded Bronze Gate Valve	75.90	14.72
	<i>For Work In Restricted Working Space, Add</i>	13.53	
	<i>For 150 LB Rating, Add</i>	3.08	
	<i>For 200 LB Rating, Add</i>	4.62	
	<i>For 250 LB Rating, Add</i>	7.70	
	<i>For 300 LB Rating, Add</i>	10.78	
23 05 23 00-0005	EA 1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	78.28	14.72
	<i>For Work In Restricted Working Space, Add</i>	14.24	
	<i>For 150 LB Rating, Add</i>	3.08	
	<i>For 200 LB Rating, Add</i>	4.62	
	<i>For 250 LB Rating, Add</i>	7.70	
	<i>For 300 LB Rating, Add</i>	10.78	
23 05 23 00-0006	EA 3/4" Diameter, 125 LB, Threaded Bronze Gate Valve	100.73	16.19
	<i>For Work In Restricted Working Space, Add</i>	19.19	
	<i>For 150 LB Rating, Add</i>	3.68	
	<i>For 200 LB Rating, Add</i>	5.51	
	<i>For 250 LB Rating, Add</i>	9.19	
	<i>For 300 LB Rating, Add</i>	12.86	
23 05 23 00-0007	EA 1" Diameter, 125 LB, Threaded Bronze Gate Valve	132.98	18.40
	<i>For Work In Restricted Working Space, Add</i>	23.24	
	<i>For 150 LB Rating, Add</i>	5.55	
	<i>For 200 LB Rating, Add</i>	8.33	
	<i>For 250 LB Rating, Add</i>	13.88	
	<i>For 300 LB Rating, Add</i>	19.43	
23 05 23 00-0008	EA 1-1/4" Diameter, 125 LB, Threaded Bronze Gate Valve	172.97	19.58
	<i>For Work In Restricted Working Space, Add</i>	29.43	
	<i>For 150 LB Rating, Add</i>	7.49	
	<i>For 200 LB Rating, Add</i>	11.23	
	<i>For 250 LB Rating, Add</i>	18.72	
	<i>For 300 LB Rating, Add</i>	26.20	
23 05 23 00-0009	EA 1-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	207.53	22.66
	<i>For Work In Restricted Working Space, Add</i>	33.96	
	<i>For 150 LB Rating, Add</i>	9.43	
	<i>For 200 LB Rating, Add</i>	14.15	
	<i>For 250 LB Rating, Add</i>	23.58	
	<i>For 300 LB Rating, Add</i>	33.02	
23 05 23 00-0010	EA 2" Diameter, 125 LB, Threaded Bronze Gate Valve	262.67	26.78
	<i>For Work In Restricted Working Space, Add</i>	40.13	
	<i>For 150 LB Rating, Add</i>	12.89	
	<i>For 200 LB Rating, Add</i>	19.33	
	<i>For 250 LB Rating, Add</i>	32.22	
	<i>For 300 LB Rating, Add</i>	45.11	
23 05 23 00-0011	EA 2-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	548.24	36.18
	<i>For Work In Restricted Working Space, Add</i>	54.20	
	<i>For Chain Operated Type, Add</i>	165.42	
	<i>For 150 LB Rating, Add</i>	36.76	
	<i>For 200 LB Rating, Add</i>	55.14	
	<i>For 250 LB Rating, Add</i>	91.90	
	<i>For 300 LB Rating, Add</i>	128.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0012 EA 3" Diameter, 125 LB, Threaded Bronze Gate Valve	647.85	42.00
<i>For Work In Restricted Working Space, Add</i>	62.53	
<i>For Chain Operated Type, Add</i>	197.73	
<i>For 150 LB Rating, Add</i>	43.94	
<i>For 200 LB Rating, Add</i>	65.91	
<i>For 250 LB Rating, Add</i>	109.85	
<i>For 300 LB Rating, Add</i>	153.79	
23 05 23 00-0013 EA 4" Diameter, 125 LB, Threaded Bronze Gate Valve	1,283.89	47.42
<i>For Work In Restricted Working Space, Add</i>	71.13	
<i>For Chain Operated Type, Add</i>	471.06	
<i>For 150 LB Rating, Add</i>	104.68	
<i>For 200 LB Rating, Add</i>	157.02	
<i>For 250 LB Rating, Add</i>	261.70	
<i>For 300 LB Rating, Add</i>	366.38	
23 05 23 00-0014 Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
<small>Note: 125 psi steam, basic rating, 200 psi cold working pressure.</small>		
23 05 23 00-0015 EA 1-1/2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	295.14	22.66
<i>For Work In Restricted Working Space, Add</i>	33.96	
<i>For 150 LB Rating, Add</i>	36.39	
<i>For 250 LB Rating, Add</i>	63.68	
<i>For Chain Operated Type, Add</i>	63.68	
23 05 23 00-0016 EA 2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	441.21	26.78
<i>For Work In Restricted Working Space, Add</i>	40.13	
<i>For 150 LB Rating, Add</i>	61.49	
<i>For 250 LB Rating, Add</i>	107.60	
<i>For Chain Operated Type, Add</i>	107.60	
23 05 23 00-0017 EA 2-1/2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	643.03	36.18
<i>For Work In Restricted Working Space, Add</i>	54.20	
<i>For 150 LB Rating, Add</i>	92.48	
<i>For 250 LB Rating, Add</i>	161.83	
<i>For Chain Operated Type, Add</i>	161.83	
23 05 23 00-0018 EA 3" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	815.11	42.00
<i>For Work In Restricted Working Space, Add</i>	62.53	
<i>For 150 LB Rating, Add</i>	121.33	
<i>For 250 LB Rating, Add</i>	212.33	
<i>For Chain Operated Type, Add</i>	212.33	
23 05 23 00-0019 EA 4" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	1,870.18	47.42
<i>For Work In Restricted Working Space, Add</i>	71.13	
<i>For 150 LB Rating, Add</i>	326.62	
<i>For 250 LB Rating, Add</i>	571.58	
<i>For Chain Operated Type, Add</i>	571.58	
23 05 23 00-0020 Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
<small>Note: 125 psi steam, basic rating, 200 psi cold working pressure.</small>		
23 05 23 00-0021 EA 1-1/2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	447.20	154.52
<i>For Work In Restricted Working Space, Add</i>	58.09	
<i>For 150 LB Rating, Add</i>	73.54	
<i>For 250 LB Rating, Add</i>	126.79	
<i>For 300 LB Rating, ASTM A182, Add</i>	350.39	
<i>For Chain Operated Type, Add</i>	126.79	
23 05 23 00-0022 EA 2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	510.47	196.17
<i>For Work In Restricted Working Space, Add</i>	73.58	
<i>For 150 LB Rating, Add</i>	76.91	
<i>For 250 LB Rating, Add</i>	132.60	
<i>For 300 LB Rating, ASTM A182, Add</i>	387.84	
<i>For Chain Operated Type, Add</i>	132.60	
23 05 23 00-0023 EA 2-1/2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	564.53	196.45
<i>For Work In Restricted Working Space, Add</i>	73.90	
<i>For 150 LB Rating, Add</i>	92.28	
<i>For 250 LB Rating, Add</i>	159.10	
<i>For 300 LB Rating, ASTM A182, Add</i>	441.36	
<i>For Chain Operated Type, Add</i>	159.10	
23 05 23 00-0024 EA 3" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	685.98	230.33
<i>For Work In Restricted Working Space, Add</i>	86.48	
<i>For 150 LB Rating, Add</i>	115.34	
<i>For 250 LB Rating, Add</i>	198.86	
<i>For 300 LB Rating, ASTM A182, Add</i>	541.85	
<i>For Chain Operated Type, Add</i>	198.86	
23 05 23 00-0025 EA 4" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,014.20	386.13
<i>For Work In Restricted Working Space, Add</i>	145.17	
<i>For 150 LB Rating, Add</i>	153.79	
<i>For 250 LB Rating, Add</i>	265.16	
<i>For 300 LB Rating, ASTM A182, Add</i>	772.26	
<i>For Chain Operated Type, Add</i>	265.16	
23 05 23 00-0026 EA 5" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,180.63	393.64
<i>For Work In Restricted Working Space, Add</i>	147.39	
<i>For 150 LB Rating, Add</i>	199.91	
<i>For 250 LB Rating, Add</i>	344.67	
<i>For 300 LB Rating, ASTM A182, Add</i>	934.99	
<i>For Chain Operated Type, Add</i>	344.67	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0027 EA 6" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,397.01	437.38
For Work In Restricted Working Space, Add	164.60	
For 150 LB Rating, Add	246.02	
For 250 LB Rating, Add	424.17	
For 300 LB Rating, ASTM A182, Add	1,122.67	
For Chain Operated Type, Add	424.17	
23 05 23 00-0028 EA 8" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,099.52	558.87
For Work In Restricted Working Space, Add	208.28	
For 150 LB Rating, Add	407.53	
For 250 LB Rating, Add	702.64	
For 300 LB Rating, ASTM A182, Add	1,752.40	
For Chain Operated Type, Add	702.64	
23 05 23 00-0029 EA 10" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,706.33	680.37
For Work In Restricted Working Space, Add	255.14	
For 150 LB Rating, Add	538.21	
For 250 LB Rating, Add	927.94	
For 300 LB Rating, ASTM A182, Add	2,281.11	
For Chain Operated Type, Add	927.94	
23 05 23 00-0030 EA 12" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	3,682.25	826.15
For Work In Restricted Working Space, Add	309.26	
For 150 LB Rating, Add	768.91	
For 250 LB Rating, Add	1,325.70	
For 300 LB Rating, ASTM A182, Add	3,166.83	
For Chain Operated Type, Add	1,325.70	
23 05 23 00-0031 Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0032 EA 1-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	559.18	22.66
For Work In Restricted Working Space, Add	33.96	
For 175 LB Rating, Add	222.99	
For 250 LB Rating, Add	334.49	
23 05 23 00-0033 EA 2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	710.32	26.78
For Work In Restricted Working Space, Add	40.13	
For 175 LB Rating, Add	288.27	
For 250 LB Rating, Add	432.41	
23 05 23 00-0034 EA 2-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	830.77	36.18
For Work In Restricted Working Space, Add	54.20	
For 175 LB Rating, Add	325.06	
For 250 LB Rating, Add	487.59	
23 05 23 00-0035 EA 3" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	925.78	42.00
For Work In Restricted Working Space, Add	62.53	
For 175 LB Rating, Add	358.67	
For 250 LB Rating, Add	538.01	
23 05 23 00-0036 EA 4" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	1,227.65	47.42
For Work In Restricted Working Space, Add	71.13	
For 175 LB Rating, Add	495.28	
For 250 LB Rating, Add	742.91	
23 05 23 00-0037 Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for >12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for >24".		
23 05 23 00-0038 EA 1-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	559.18	154.52
For Work In Restricted Working Space, Add	58.09	
For 150 LB Rating, Add	54.83	
For 175 LB Rating, Add	113.32	
For 250 LB Rating, Add	237.61	
For Chain Operated Type, Add	182.78	
23 05 23 00-0039 EA 2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	621.67	196.17
For Work In Restricted Working Space, Add	73.58	
For 150 LB Rating, Add	56.46	
For 175 LB Rating, Add	116.68	
For 250 LB Rating, Add	244.66	
For Chain Operated Type, Add	188.20	
23 05 23 00-0040 EA 2-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	635.03	196.45
For Work In Restricted Working Space, Add	73.90	
For 150 LB Rating, Add	58.30	
For 175 LB Rating, Add	120.49	
For 250 LB Rating, Add	252.65	
For Chain Operated Type, Add	194.35	
23 05 23 00-0041 EA 3" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	715.93	230.33
For Work In Restricted Working Space, Add	86.48	
For 150 LB Rating, Add	64.15	
For 175 LB Rating, Add	132.57	
For 250 LB Rating, Add	277.98	
For Chain Operated Type, Add	213.83	
23 05 23 00-0042 EA 4" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,002.53	386.13
For Work In Restricted Working Space, Add	145.17	
For 150 LB Rating, Add	77.80	
For 175 LB Rating, Add	160.78	
For 250 LB Rating, Add	337.12	
For Chain Operated Type, Add	259.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0043 EA 5" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,214.91	393.64
For Work In Restricted Working Space, Add	147.39	
For 150 LB Rating, Add	108.54	
For 175 LB Rating, Add	224.32	
For 250 LB Rating, Add	470.35	
For Chain Operated Type, Add	361.81	
23 05 23 00-0044 EA 6" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,375.08	437.38
For Work In Restricted Working Space, Add	164.60	
For 150 LB Rating, Add	123.96	
For 175 LB Rating, Add	256.18	
For 250 LB Rating, Add	537.16	
For Chain Operated Type, Add	413.20	
23 05 23 00-0045 EA 8" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,091.92	558.87
For Work In Restricted Working Space, Add	208.28	
For 150 LB Rating, Add	209.65	
For 175 LB Rating, Add	433.28	
For 250 LB Rating, Add	908.49	
For Chain Operated Type, Add	698.84	
23 05 23 00-0046 EA 10" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	3,001.46	680.37
For Work In Restricted Working Space, Add	255.14	
For 150 LB Rating, Add	322.65	
For 175 LB Rating, Add	666.81	
For 250 LB Rating, Add	1,398.16	
For Chain Operated Type, Add	1,075.51	
23 05 23 00-0047 EA 12" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	3,757.08	826.15
For Work In Restricted Working Space, Add	309.26	
For 150 LB Rating, Add	408.93	
For 175 LB Rating, Add	845.13	
For 250 LB Rating, Add	1,772.05	
For Chain Operated Type, Add	1,363.12	
23 05 23 00-0048 EA 14" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	7,191.69	1,102.43
For Work In Restricted Working Space, Add	413.41	
For 150 LB Rating, Add	872.05	
For 175 LB Rating, Add	1,802.23	
For 250 LB Rating, Add	3,778.88	
23 05 23 00-0049 EA 16" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	9,248.59	1,212.67
For Work In Restricted Working Space, Add	454.75	
For 150 LB Rating, Add	1,159.91	
For 175 LB Rating, Add	2,397.15	
For 250 LB Rating, Add	5,026.29	
23 05 23 00-0050 EA 18" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	12,507.20	1,344.97
For Work In Restricted Working Space, Add	504.36	
For 150 LB Rating, Add	1,623.90	
For 175 LB Rating, Add	3,356.06	
For 250 LB Rating, Add	7,036.89	
23 05 23 00-0051 EA 20" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	15,811.81	1,515.84
For Work In Restricted Working Space, Add	568.44	
For 150 LB Rating, Add	2,087.55	
For 175 LB Rating, Add	4,314.27	
For 250 LB Rating, Add	9,046.05	
23 05 23 00-0052 EA 24" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	21,524.24	1,860.35
For Work In Restricted Working Space, Add	697.63	
For 150 LB Rating, Add	2,879.82	
For 175 LB Rating, Add	5,951.63	
For 250 LB Rating, Add	12,479.22	
23 05 23 00-0053 EA 30" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	44,587.05	3,031.69
For Work In Restricted Working Space, Add	1,136.88	
For 150 LB Rating, Add	6,119.62	
For 175 LB Rating, Add	12,647.21	
For 250 LB Rating, Add	26,518.34	
23 05 23 00-0054 EA 36" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	56,889.56	4,042.25
For Work In Restricted Working Space, Add	1,515.84	
For 150 LB Rating, Add	7,775.51	
For 175 LB Rating, Add	16,069.40	
For 250 LB Rating, Add	33,693.89	
23 05 23 00-0055 EA 42" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	66,966.75	5,192.42
For Work In Restricted Working Space, Add	1,947.16	
For 150 LB Rating, Add	9,071.43	
For 175 LB Rating, Add	18,747.63	
For 250 LB Rating, Add	39,309.54	
23 05 23 00-0056 EA 48" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	80,641.97	6,490.53
For Work In Restricted Working Space, Add	2,433.95	
For 150 LB Rating, Add	10,879.32	
For 175 LB Rating, Add	22,483.93	
For 250 LB Rating, Add	47,143.72	
23 05 23 00-0057 EA 54" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	96,770.36	7,788.64
For Work In Restricted Working Space, Add	2,920.74	
For 150 LB Rating, Add	13,055.18	
For 175 LB Rating, Add	26,980.71	
For 250 LB Rating, Add	56,572.46	

23 05 23 00-0058 Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim,
 Bolted Bonnet Gate Valves (23 05 23 00-0001)
 Note: 800 psig at 850 degrees F.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0059 EA 1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	170.66	14.72
<i>For Work In Restricted Working Space, Add</i>	12.86	
23 05 23 00-0060 EA 1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	175.29	14.72
<i>For Work In Restricted Working Space, Add</i>	14.24	
23 05 23 00-0061 EA 3/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	208.94	16.19
<i>For Work In Restricted Working Space, Add</i>	19.19	
23 05 23 00-0062 EA 1" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	253.60	18.40
<i>For Work In Restricted Working Space, Add</i>	23.24	
23 05 23 00-0063 EA 1-1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	382.30	19.58
<i>For Work In Restricted Working Space, Add</i>	29.43	
23 05 23 00-0064 EA 1-1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	451.44	22.66
<i>For Work In Restricted Working Space, Add</i>	33.96	
23 05 23 00-0065 EA 2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	565.54	26.78
<i>For Work In Restricted Working Space, Add</i>	40.13	
23 05 23 00-0066 Ball Valves <small>(23 05 23)</small>		
See CSI section 23 23 13 00-0000 for refrigeration valves.		
23 05 23 00-0067 Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves <small>(23 05 23 00-0066)</small>		
Note: 125 LB WSP.		
23 05 23 00-0068 EA 1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	59.91	14.72
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	5.59	
<i>For Work In Restricted Working Space, Add</i>	14.24	
23 05 23 00-0069 EA 3/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	83.09	16.19
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	8.60	
<i>For Work In Restricted Working Space, Add</i>	19.19	
23 05 23 00-0070 EA 1" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	103.25	18.40
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	11.61	
<i>For Work In Restricted Working Space, Add</i>	23.24	
23 05 23 00-0071 EA 1-1/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	141.42	19.58
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	19.49	
<i>For Work In Restricted Working Space, Add</i>	29.43	
23 05 23 00-0072 EA 1-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	168.52	22.66
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	24.89	
<i>For Work In Restricted Working Space, Add</i>	33.96	
23 05 23 00-0073 EA 2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	203.07	26.78
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	31.18	
<i>For Work In Restricted Working Space, Add</i>	40.13	
23 05 23 00-0074 EA 2-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	507.65	36.18
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	147.15	
<i>For Work In Restricted Working Space, Add</i>	54.20	
23 05 23 00-0075 EA 3" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	585.73	42.00
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	169.78	
<i>For Work In Restricted Working Space, Add</i>	62.53	
23 05 23 00-0076 EA 4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	751.48	47.42
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	231.47	
<i>For Work In Restricted Working Space, Add</i>	71.13	
23 05 23 00-0077 Screwed, 150 LB, Full Port, Carbon Steel Ball Valves <small>(23 05 23 00-0066)</small>		
23 05 23 00-0078 EA 1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	66.63	14.72
<i>For Work In Restricted Working Space, Add</i>	12.86	
23 05 23 00-0079 EA 1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	73.29	14.72
<i>For Work In Restricted Working Space, Add</i>	14.24	
23 05 23 00-0080 EA 3/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	101.31	16.19
<i>For Work In Restricted Working Space, Add</i>	19.19	
23 05 23 00-0081 EA 1" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	127.66	18.40
<i>For Work In Restricted Working Space, Add</i>	23.24	
23 05 23 00-0082 EA 1-1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	183.91	19.58
<i>For Work In Restricted Working Space, Add</i>	29.43	
23 05 23 00-0083 EA 1-1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	221.89	22.66
<i>For Work In Restricted Working Space, Add</i>	33.96	
23 05 23 00-0084 EA 2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	283.44	26.78
<i>For Work In Restricted Working Space, Add</i>	40.13	
23 05 23 00-0085 Flanged, 150 LB, Full Port, Carbon Steel Ball Valves <small>(23 05 23 00-0066)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0086 EA 1-1/2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	384.02	154.52
For Work In Restricted Working Space, Add	58.09	
For 150 LB Rating, Add	55.21	
For 250 LB Rating, Add	95.20	
For 300 LB Rating, ASTM A182, Add	287.21	
For Chain Operated Type, Add	95.20	
For Work In Restricted Working Space, Add	58.09	
23 05 23 00-0087 EA 2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	481.46	196.17
For Work In Restricted Working Space, Add	73.58	
For 150 LB Rating, Add	68.50	
For 250 LB Rating, Add	118.10	
For 300 LB Rating, ASTM A182, Add	358.83	
For Chain Operated Type, Add	118.10	
For Work In Restricted Working Space, Add	73.58	
23 05 23 00-0088 EA 2-1/2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	677.80	196.45
For Work In Restricted Working Space, Add	73.90	
For 150 LB Rating, Add	125.12	
For 250 LB Rating, Add	215.73	
For 300 LB Rating, ASTM A182, Add	554.63	
For Chain Operated Type, Add	215.73	
For Work In Restricted Working Space, Add	73.90	
23 05 23 00-0089 EA 3" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	754.77	230.33
For Work In Restricted Working Space, Add	86.48	
For 150 LB Rating, Add	135.29	
For 250 LB Rating, Add	233.25	
For 300 LB Rating, ASTM A182, Add	610.64	
For Chain Operated Type, Add	233.25	
For Work In Restricted Working Space, Add	86.48	
23 05 23 00-0090 EA 4" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	1,139.14	386.13
For Work In Restricted Working Space, Add	145.17	
23 05 23 00-0091 EA 6" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	2,325.28	437.38
For Work In Restricted Working Space, Add	164.60	
23 05 23 00-0092 EA 8" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	3,846.45	558.87
For Work In Restricted Working Space, Add	208.28	
23 05 23 00-0093 Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves <small>(23 05 23 00-0066)</small>		
23 05 23 00-0094 EA 1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	55.11	14.72
For True Union Socket Or Thread Type, Add	5.54	
For Work In Restricted Working Space, Add	14.24	
23 05 23 00-0095 EA 3/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	72.76	16.19
For True Union Socket Or Thread Type, Add	6.87	
For Work In Restricted Working Space, Add	19.19	
23 05 23 00-0096 EA 1" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	89.69	18.40
For True Union Socket Or Thread Type, Add	8.96	
For Work In Restricted Working Space, Add	23.24	
23 05 23 00-0097 EA 1-1/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	114.18	19.58
For True Union Socket Or Thread Type, Add	11.58	
For Work In Restricted Working Space, Add	29.43	
23 05 23 00-0098 EA 1-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	141.15	22.66
For True Union Socket Or Thread Type, Add	17.12	
For Work In Restricted Working Space, Add	33.96	
23 05 23 00-0099 EA 2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	169.40	26.78
For True Union Socket Or Thread Type, Add	21.27	
For Work In Restricted Working Space, Add	40.13	
23 05 23 00-0100 EA 2-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	257.30	36.18
For True Union Socket Or Thread Type, Add	40.14	
For Work In Restricted Working Space, Add	54.20	
23 05 23 00-0101 EA 3" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	338.78	42.00
For True Union Socket Or Thread Type, Add	63.08	
For Work In Restricted Working Space, Add	62.53	
23 05 23 00-0102 EA 4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	486.31	47.42
For True Union Socket Or Thread Type, Add	112.13	
For Work In Restricted Working Space, Add	71.13	
23 05 23 00-0103 Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves <small>(23 05 23 00-0066)</small>		
23 05 23 00-0104 EA 1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	101.65	22.08
For Full Port, Add	16.82	
For Work In Restricted Working Space, Add	19.28	
23 05 23 00-0105 EA 3/8" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	105.03	22.08
For Full Port, Add	16.82	
For Work In Restricted Working Space, Add	20.30	
23 05 23 00-0106 EA 1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	108.57	22.08
For Full Port, Add	16.82	
For Work In Restricted Working Space, Add	21.36	
23 05 23 00-0107 EA 3/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	135.60	24.28
For Full Port, Add	17.83	
For Work In Restricted Working Space, Add	28.79	
23 05 23 00-0108 EA 1" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	174.88	27.59
For Full Port, Add	26.41	
For Work In Restricted Working Space, Add	34.86	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0109 EA 1-1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	227.49	29.36
For Full Port, Add	36.15	
For Work In Restricted Working Space, Add	44.15	
23 05 23 00-0110 EA 1-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	276.61	33.99
For Full Port, Add	48.06	
For Work In Restricted Working Space, Add	50.94	
23 05 23 00-0111 EA 2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	374.50	40.18
For Full Port, Add	78.22	
For Work In Restricted Working Space, Add	60.20	
23 05 23 00-0112 EA 2-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	692.81	54.26
For Full Port, Add	189.83	
For Work In Restricted Working Space, Add	81.29	
23 05 23 00-0113 EA 3" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	982.53	63.00
For Full Port, Add	301.44	
For Work In Restricted Working Space, Add	93.80	
23 05 23 00-0114 Globe Valves (23 05 23)		
23 05 23 00-0115 Threaded Or Sweated, 125 LB, Bronze Body, Globe Valves (23 05 23 00-0114)		
23 05 23 00-0116 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	82.54	14.72
For 150 LB Rating, Add	10.87	
For 200 LB Rating, Add	13.32	
For 250 LB Rating, Add	15.78	
For 300 LB Rating, Add	19.28	
For Work In Restricted Working Space, Add	14.24	
23 05 23 00-0117 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	77.91	14.72
For 150 LB Rating, Add	10.87	
For 200 LB Rating, Add	13.32	
For 250 LB Rating, Add	15.78	
For 300 LB Rating, Add	19.28	
For Work In Restricted Working Space, Add	12.86	
23 05 23 00-0118 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	97.44	14.72
For 150 LB Rating, Add	16.23	
For 200 LB Rating, Add	19.89	
For 250 LB Rating, Add	23.55	
For 300 LB Rating, Add	28.79	
For Work In Restricted Working Space, Add	13.53	
23 05 23 00-0119 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	99.82	14.72
For 150 LB Rating, Add	16.23	
For 200 LB Rating, Add	19.89	
For 250 LB Rating, Add	23.55	
For 300 LB Rating, Add	28.79	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	76.57	
For Work In Restricted Working Space, Add	14.24	
23 05 23 00-0120 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	120.71	15.45
For 150 LB Rating, Add	17.59	
For 200 LB Rating, Add	21.56	
For 250 LB Rating, Add	25.53	
For 300 LB Rating, Add	31.20	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	88.00	
For Work In Restricted Working Space, Add	19.19	
23 05 23 00-0121 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	154.14	15.45
For 150 LB Rating, Add	23.77	
For 200 LB Rating, Add	29.14	
For 250 LB Rating, Add	34.51	
For 300 LB Rating, Add	42.17	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	115.33	
For Work In Restricted Working Space, Add	23.24	
23 05 23 00-0122 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	230.55	19.58
For 150 LB Rating, Add	41.06	
For 200 LB Rating, Add	50.33	
For 250 LB Rating, Add	59.60	
For 300 LB Rating, Add	72.84	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	184.93	
For Work In Restricted Working Space, Add	29.43	
23 05 23 00-0123 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	302.47	22.66
For 150 LB Rating, Add	58.67	
For 200 LB Rating, Add	71.92	
For 250 LB Rating, Add	85.17	
For 300 LB Rating, Add	104.10	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	253.48	
For Work In Restricted Working Space, Add	33.96	
23 05 23 00-0124 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	356.29	26.78
For 150 LB Rating, Add	68.98	
For 200 LB Rating, Add	84.55	
For 250 LB Rating, Add	100.13	
For 300 LB Rating, Add	122.38	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	298.27	
For Work In Restricted Working Space, Add	40.13	
23 05 23 00-0125 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	404.99	36.18
For 150 LB Rating, Add	69.55	
For 200 LB Rating, Add	85.25	
For 250 LB Rating, Add	100.95	
For 300 LB Rating, Add	123.39	
For Work In Restricted Working Space, Add	54.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0126 EA 3" Globe Valve, Bronze, Threaded Or Soldered, 125 LB.....	711.04	42.00
<i>For 150 LB Rating, Add</i>	155.81	
<i>For 200 LB Rating, Add</i>	190.99	
<i>For 250 LB Rating, Add</i>	226.17	
<i>For 300 LB Rating, Add</i>	276.43	
<i>For Work In Restricted Working Space, Add</i>	62.53	
23 05 23 00-0127 Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0114)		
23 05 23 00-0128 EA 2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	524.71	26.78
<i>For 150 LB Rating, Add</i>	121.19	
<i>For 200 LB Rating, Add</i>	148.55	
<i>For 250 LB Rating, Add</i>	175.92	
<i>For 300 LB Rating, Add</i>	215.01	
<i>For Chain Operated Type, Add</i>	326.43	
<i>For Work In Restricted Working Space, Add</i>	40.13	
23 05 23 00-0129 EA 2-1/2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	654.51	36.18
<i>For 150 LB Rating, Add</i>	146.90	
<i>For 200 LB Rating, Add</i>	180.07	
<i>For 250 LB Rating, Add</i>	213.24	
<i>For 300 LB Rating, Add</i>	260.62	
<i>For Chain Operated Type, Add</i>	395.67	
<i>For Work In Restricted Working Space, Add</i>	54.20	
23 05 23 00-0130 EA 3" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	777.07	42.00
<i>For 150 LB Rating, Add</i>	176.28	
<i>For 200 LB Rating, Add</i>	216.08	
<i>For 250 LB Rating, Add</i>	255.88	
<i>For 300 LB Rating, Add</i>	312.75	
<i>For Chain Operated Type, Add</i>	474.81	
<i>For Work In Restricted Working Space, Add</i>	62.53	
23 05 23 00-0131 EA 4" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	995.21	47.42
<i>For 150 LB Rating, Add</i>	235.03	
<i>For 200 LB Rating, Add</i>	288.10	
<i>For 250 LB Rating, Add</i>	341.18	
<i>For 300 LB Rating, Add</i>	416.99	
<i>For Chain Operated Type, Add</i>	633.07	
<i>For Work In Restricted Working Space, Add</i>	71.11	
23 05 23 00-0132 Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0114)		
23 05 23 00-0133 EA 2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	462.51	196.17
<i>For 150 LB Rating, Add</i>	67.34	
<i>For 250 LB Rating, Add</i>	97.76	
<i>For Chain Operated Type, Add</i>	108.62	
<i>For Work In Restricted Working Space, Add</i>	73.58	
23 05 23 00-0134 EA 2-1/2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	511.17	196.45
<i>For 150 LB Rating, Add</i>	82.10	
<i>For 250 LB Rating, Add</i>	119.17	
<i>For Chain Operated Type, Add</i>	132.42	
<i>For Work In Restricted Working Space, Add</i>	73.90	
23 05 23 00-0135 EA 3" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	606.06	230.33
<i>For 150 LB Rating, Add</i>	98.51	
<i>For 250 LB Rating, Add</i>	143.01	
<i>For Chain Operated Type, Add</i>	158.90	
<i>For Work In Restricted Working Space, Add</i>	86.48	
23 05 23 00-0136 EA 4" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	907.61	386.13
<i>For 150 LB Rating, Add</i>	131.35	
<i>For 250 LB Rating, Add</i>	190.67	
<i>For Chain Operated Type, Add</i>	211.86	
<i>For Work In Restricted Working Space, Add</i>	145.17	
23 05 23 00-0137 EA 5" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	1,080.53	393.64
<i>For 150 LB Rating, Add</i>	182.66	
<i>For 250 LB Rating, Add</i>	265.16	
<i>For Chain Operated Type, Add</i>	294.62	
<i>For Work In Restricted Working Space, Add</i>	147.39	
23 05 23 00-0138 EA 6" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	1,293.51	437.38
<i>For 150 LB Rating, Add</i>	230.90	
<i>For 250 LB Rating, Add</i>	335.17	
<i>For Chain Operated Type, Add</i>	372.42	
<i>For Work In Restricted Working Space, Add</i>	164.60	
23 05 23 00-0139 EA 8" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	1,839.63	558.87
<i>For 150 LB Rating, Add</i>	355.07	
<i>For 250 LB Rating, Add</i>	515.42	
<i>For Chain Operated Type, Add</i>	572.69	
<i>For Work In Restricted Working Space, Add</i>	208.28	
23 05 23 00-0140 EA 10" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	2,595.00	680.37
<i>For 150 LB Rating, Add</i>	540.81	
<i>For 250 LB Rating, Add</i>	785.05	
<i>For Chain Operated Type, Add</i>	872.28	
<i>For Work In Restricted Working Space, Add</i>	255.14	
23 05 23 00-0141 EA 12" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	4,332.01	826.15
<i>For 150 LB Rating, Add</i>	1,023.36	
<i>For 250 LB Rating, Add</i>	1,485.52	
<i>For Chain Operated Type, Add</i>	1,650.58	
<i>For Work In Restricted Working Space, Add</i>	309.26	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0142 Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valves <small>(23 05 23 00-0114)</small>		
23 05 23 00-0143 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	74.04	14.72
For 150 LB Rating, Add	8.23	
For 200 LB Rating, Add	10.09	
For 300 LB Rating, Add	14.61	
For Work In Restricted Working Space, Add	14.24	
23 05 23 00-0144 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	69.41	14.72
For 150 LB Rating, Add	8.23	
For 200 LB Rating, Add	10.09	
For 300 LB Rating, Add	14.61	
For Work In Restricted Working Space, Add	12.86	
23 05 23 00-0145 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	71.66	14.72
For 150 LB Rating, Add	8.23	
For 200 LB Rating, Add	10.09	
For 300 LB Rating, Add	14.61	
For Work In Restricted Working Space, Add	13.53	
23 05 23 00-0146 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	75.81	14.72
For 150 LB Rating, Add	8.78	
For 200 LB Rating, Add	10.77	
For 300 LB Rating, Add	15.58	
For Work In Restricted Working Space, Add	14.24	
23 05 23 00-0147 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	103.27	15.45
For 150 LB Rating, Add	12.18	
For 200 LB Rating, Add	14.93	
For 300 LB Rating, Add	21.61	
For Work In Restricted Working Space, Add	19.19	
23 05 23 00-0148 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	129.01	15.45
For 150 LB Rating, Add	15.98	
For 200 LB Rating, Add	19.59	
For 300 LB Rating, Add	28.35	
For Work In Restricted Working Space, Add	23.24	
23 05 23 00-0149 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	174.69	19.58
For 150 LB Rating, Add	23.74	
For 200 LB Rating, Add	29.10	
For 300 LB Rating, Add	42.12	
For Work In Restricted Working Space, Add	29.43	
23 05 23 00-0150 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	202.49	22.66
For 150 LB Rating, Add	27.68	
For 200 LB Rating, Add	33.93	
For 300 LB Rating, Add	49.11	
For Work In Restricted Working Space, Add	33.96	
23 05 23 00-0151 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	268.27	26.78
For 150 LB Rating, Add	41.69	
For 200 LB Rating, Add	51.11	
For 300 LB Rating, Add	73.97	
For Work In Restricted Working Space, Add	40.13	
23 05 23 00-0152 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	438.81	39.29
For 150 LB Rating, Add	75.20	
For 200 LB Rating, Add	92.18	
For 300 LB Rating, Add	133.42	
For Work In Restricted Working Space, Add	58.87	
23 05 23 00-0153 EA 3" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	637.23	45.62
For 150 LB Rating, Add	127.36	
For 200 LB Rating, Add	156.12	
For 300 LB Rating, Add	225.96	
For Work In Restricted Working Space, Add	67.92	
23 05 23 00-0154 Flanged, 125 LB, Iron Body, Angle Globe Valves <small>(23 05 23 00-0114)</small>		
23 05 23 00-0155 EA 2" Flanged, 125 LB, Iron Body, Angle Globe Valve	804.19	196.17
For 250 LB Rating, Add	335.35	
For Chain Operated Type, Add	217.98	
For Work In Restricted Working Space, Add	73.58	
23 05 23 00-0156 EA 2-1/2" Flanged, 125 LB, Iron Body, Angle Globe Valve	907.36	196.45
For 250 LB Rating, Add	396.61	
For Chain Operated Type, Add	257.80	
For Work In Restricted Working Space, Add	73.90	
23 05 23 00-0157 EA 3" Flanged, 125 LB, Iron Body, Angle Globe Valve	1,067.24	230.33
For 250 LB Rating, Add	467.38	
For Chain Operated Type, Add	303.80	
For Work In Restricted Working Space, Add	86.48	
23 05 23 00-0158 EA 4" Flanged, 125 LB, Iron Body, Angle Globe Valve	1,596.48	386.13
For 250 LB Rating, Add	667.55	
For Chain Operated Type, Add	433.91	
For Work In Restricted Working Space, Add	145.17	
23 05 23 00-0159 EA 5" Flanged, 125 LB, Iron Body, Angle Globe Valve	2,485.25	393.64
For 250 LB Rating, Add	1,196.38	
For Chain Operated Type, Add	777.64	
For Work In Restricted Working Space, Add	147.39	
23 05 23 00-0160 EA 6" Flanged, 125 LB, Iron Body, Angle Globe Valve	2,542.64	437.38
For 250 LB Rating, Add	1,196.38	
For Chain Operated Type, Add	777.64	
For Work In Restricted Working Space, Add	164.60	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
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	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0161	EA 8" Flanged, 125 LB, Iron Body, Angle Globe Valve <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,596.83 2,341.55 1,522.01 208.28	558.87
23 05 23 00-0162	Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valves <small>(23 05 23 00-0114)</small> Note: 800 PSIG at 850 degrees F.			
23 05 23 00-0163	EA 1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	.....	212.75 12.86	23.84
23 05 23 00-0164	EA 1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	.....	217.38 14.24	23.84
23 05 23 00-0165	EA 3/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	.....	257.26 19.19	32.08
23 05 23 00-0166	EA 1" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	.....	317.50 23.24	38.70
23 05 23 00-0167	EA 1-1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	.....	509.61 29.43	49.00
23 05 23 00-0168	EA 1-1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	.....	610.43 33.96	56.65
23 05 23 00-0169	EA 2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	.....	774.41 40.13	66.96
23 05 23 00-0170	Triple Duty Valves <small>(23 05 23)</small> Note: Valves function as a shut-off, check valve and calibrated balancing valve.			
23 05 23 00-0171	Straight Pattern, Triple Duty Valves <small>(23 05 23 00-0170)</small> Note: Bell & Gossett 3DX and 3DS-S Series.			
23 05 23 00-0172	EA 1" Threaded, Straight Pattern, Triple Duty Valve	.....	323.27	15.45
23 05 23 00-0173	EA 1-1/4" Threaded, Straight Pattern, Triple Duty Valve	.....	376.35	19.58
23 05 23 00-0174	EA 1-1/2" Threaded, Straight Pattern, Triple Duty Valve	.....	410.06	22.66
23 05 23 00-0175	EA 2" Flanged, Straight Pattern, Triple Duty Valve	.....	1,052.45	196.17
23 05 23 00-0176	EA 2-1/2" Flanged, Straight Pattern, Triple Duty Valve	.....	1,178.77	196.45
23 05 23 00-0177	EA 3" Flanged, Straight Pattern, Triple Duty Valve	.....	1,294.92	230.33
23 05 23 00-0178	EA 4" Flanged, Straight Pattern, Triple Duty Valve	.....	2,627.09	386.13
23 05 23 00-0179	EA 5" Flanged, Straight Pattern Triple Duty Valve	.....	3,019.52	393.64
23 05 23 00-0180	EA 6" Flanged, Straight Pattern, Triple Duty Valve	.....	4,000.07	437.38
23 05 23 00-0181	EA 8" Flanged, Straight Pattern, Triple Duty Valve	.....	5,379.60	558.87
23 05 23 00-0182	EA 10" Flanged, Straight Pattern, Triple Duty Valve	.....	8,588.24	680.37
23 05 23 00-0183	Flanged, Angle Pattern, Triple Duty Valves <small>(23 05 23 00-0170)</small> Note: Bell & Gossett 3D-S Series.			
23 05 23 00-0184	EA 2" Flanged, Angle Pattern, Triple Duty Valve	.....	1,029.25	196.17
23 05 23 00-0185	EA 2-1/2" Flanged, Angle Pattern, Triple Duty Valve	.....	1,150.94	196.45
23 05 23 00-0186	EA 3" Flanged, Angle Pattern, Triple Duty Valve	.....	1,271.73	230.33
23 05 23 00-0187	EA 4" Flanged, Angle Pattern, Triple Duty Valve	.....	2,566.78	386.13
23 05 23 00-0188	EA 5" Flanged, Angle Pattern, Triple Duty Valve	.....	2,945.30	393.64
23 05 23 00-0189	EA 6" Flanged, Angle Pattern, Triple Duty Valve	.....	3,304.22	437.38
23 05 23 00-0190	EA 8" Flanged, Angle Pattern, Triple Duty Valve	.....	5,050.23	558.87
23 05 23 00-0191	EA 10" Flanged, Angle Pattern, Triple Duty Valve	.....	6,737.29	680.37
23 05 23 00-0192	Balanced, Straight Pattern, Triple Duty Valves <small>(23 05 23 00-0170)</small> Note: Bell & Gossett 3DS-B Series.			
23 05 23 00-0193	EA 3" Flanged, Balanced, Straight Pattern, Triple Duty Valve	.....	1,192.87	230.33
23 05 23 00-0194	EA 4" Flanged, Balanced, Straight Pattern, Triple Duty Valve	.....	2,358.03	386.13
23 05 23 00-0195	EA 5" Flanged, Balanced, Straight Pattern, Triple Duty Valve	.....	2,708.71	393.64
23 05 23 00-0196	EA 6" Flanged, Balanced, Straight Pattern, Triple Duty Valve	.....	3,577.92	437.38
23 05 23 00-0197	EA 8" Flanged, Balanced, Straight Pattern, Triple Duty Valve	.....	4,804.37	558.87
23 05 23 00-0198	EA 10" Flanged, Balanced, Straight Pattern, Triple Duty Valve	.....	7,627.97	680.37
23 05 23 00-0199	EA 12" Flanged, Balanced, Straight Pattern, Triple Duty Valve	.....	11,440.95	826.15
23 05 23 00-0200	EA 14" Flanged, Balanced, Straight Pattern, Triple Duty Valve	.....	13,899.59	971.94
23 05 23 00-0201	EA 16" Flanged, Balanced, Straight Pattern, Triple Duty Valve	.....	17,383.52	1,069.15
23 05 23 00-0202	Grooved Straight Pattern, Triple Duty Valves <small>(23 05 23 00-0170)</small> Note: Bell & Gossett 3DS-G Series.			
23 05 23 00-0203	EA 2" Grooved, Straight Pattern, Triple Duty Valve	.....	1,074.28	36.35
23 05 23 00-0204	EA 2-1/2" Grooved, Straight Pattern, Triple Duty Valve	.....	1,280.85	43.36
23 05 23 00-0205	EA 3" Grooved, Straight Pattern, Triple Duty Valve	.....	1,489.98	47.01
23 05 23 00-0206	EA 4" Grooved, Straight Pattern, Triple Duty Valve	.....	2,465.61	50.67
23 05 23 00-0207	EA 5" Grooved, Straight Pattern, Triple Duty Valve	.....	2,852.52	61.96
23 05 23 00-0208	EA 6" Grooved, Straight Pattern Triple Duty Valve	.....	3,802.39	79.46
23 05 23 00-0209	EA 8" Grooved, Straight Pattern Triple Duty Valve	.....	5,170.00	100.84
23 05 23 00-0210	EA 10" Grooved, Straight Pattern Triple Duty Valve	.....	8,149.10	112.99
23 05 23 00-0211	EA 12" Grooved, Straight Pattern Triple Duty Valve	.....	12,929.85	137.77
23 05 23 00-0212	Plug Valves <small>(23 05 23)</small>			

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0213 Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated <small>(23 05 23 00-0212)</small>		
Note: Includes wrench.		
23 05 23 00-0214 EA 1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	295.99	14.72
23 05 23 00-0215 EA 3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	312.49	16.19
23 05 23 00-0216 EA 1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	394.44	18.40
23 05 23 00-0217 EA 1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	473.41	19.58
23 05 23 00-0218 EA 1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	521.47	22.66
23 05 23 00-0219 EA 2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	615.59	26.78
23 05 23 00-0220 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	918.58	36.18
23 05 23 00-0221 EA 3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	1,121.34	42.00
23 05 23 00-0222 Plug Valves, Lubricated, Semisteel Flanged <small>(23 05 23 00-0212)</small>		
Note: Wrench operated for 4", gear operated for 6" and 10".		
23 05 23 00-0223 EA 2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	477.26	196.17
23 05 23 00-0224 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	551.92	196.45
23 05 23 00-0225 EA 3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	672.25	230.33
23 05 23 00-0226 EA 4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	1,003.86	386.13
23 05 23 00-0227 EA 6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	1,935.79	437.38
23 05 23 00-0228 EA 8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	3,193.29	558.87
23 05 23 00-0229 EA 10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	5,014.99	680.37
23 05 23 00-0230 EA 12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	7,352.05	826.15
23 05 23 00-0231 Plug Valves, Forged Steel, Screwed <small>(23 05 23 00-0212)</small>		
23 05 23 00-0232 EA 1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,110.45	14.72
23 05 23 00-0233 EA 3/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,313.72	16.19
23 05 23 00-0234 EA 1" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,486.30	18.40
23 05 23 00-0235 EA 1-1/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,784.41	19.58
23 05 23 00-0236 EA 1-1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,077.74	22.66
23 05 23 00-0237 EA 2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,730.11	26.78
23 05 23 00-0238 Plug Valves, Eccentric, Cast Iron Flanged <small>(23 05 23 00-0212)</small>		
23 05 23 00-0239 EA 4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,242.45	386.13
23 05 23 00-0240 EA 6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,849.42	437.38
23 05 23 00-0241 EA 8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	2,507.35	558.87
23 05 23 00-0242 EA 10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	3,534.03	680.37
23 05 23 00-0243 EA 12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	4,552.56	826.15
23 05 23 00-0244 Foot Valves <small>(23 05 23)</small>		
23 05 23 00-0245 Single Poppet Foot Valves, Metal To Metal Seat Construction <small>(23 05 23 00-0244)</small>		
23 05 23 00-0246 EA 1" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	110.37	36.80
23 05 23 00-0247 EA 1-1/4" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	125.11	41.21
23 05 23 00-0248 EA 1-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	157.56	47.11
23 05 23 00-0249 EA 2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	203.82	52.99
23 05 23 00-0250 EA 2-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	450.14	86.85
23 05 23 00-0251 EA 3" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	573.09	105.99
23 05 23 00-0252 Double Poppet Foot Valves, Metal To Metal Seat Construction <small>(23 05 23 00-0244)</small>		
23 05 23 00-0253 EA 1" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	110.37	36.80
23 05 23 00-0254 EA 1-1/4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	219.60	41.21
23 05 23 00-0255 EA 1-1/2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	212.07	47.11
23 05 23 00-0256 EA 2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	283.74	52.99
23 05 23 00-0257 EA 3" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	549.21	86.85
23 05 23 00-0258 EA 4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	741.20	104.52
23 05 23 00-0259 Float Valves <small>(23 05 23)</small>		
23 05 23 00-0260 Float Valve Assembly For Maintaining Liquid Level In Tanks <small>(23 05 23 00-0259)</small>		
23 05 23 00-0261 Single Seat, Bronze Construction <small>(23 05 23 00-0260)</small>		
Note: For storage tanks, reservoirs, cooling towers and filtration plants.		
23 05 23 00-0262 EA Inlet Size 1/2", Maximum PSI 100, Single Seat Float Valve.....	232.62	30.91
23 05 23 00-0263 EA Inlet Size 3/4", Maximum PSI 100, Single Seat Float Valve.....	267.25	36.79
23 05 23 00-0264 EA Inlet Size 1", Maximum PSI 100, Single Seat Float Valve.....	342.93	39.73
23 05 23 00-0265 EA Inlet Size 1-1/4", Maximum PSI 90, Single Seat Float Valve.....	565.32	50.04
23 05 23 00-0266 EA Inlet Size 1-1/2", Maximum PSI 90, Single Seat Float Valve.....	580.03	57.39
23 05 23 00-0267 Double Seat, Bronze Construction <small>(23 05 23 00-0260)</small>		
Note: For hot or cold water or oil to open tanks.		
23 05 23 00-0268 EA Pipe Size 1/2" Maximum PSI 150, Double Seat Float Valve.....	1,189.01	30.91
23 05 23 00-0269 EA Pipe Size 3/4" Maximum PSI 150, Double Seat Float Valve.....	1,200.79	36.79
23 05 23 00-0270 EA Pipe Size 1" Maximum PSI 150, Double Seat Float Valve.....	1,384.53	39.73
23 05 23 00-0271 EA Pipe Size 1-1/4" Maximum PSI 150, Double Seat Float Valve.....	1,533.23	50.04
23 05 23 00-0272 EA Pipe Size 1-1/2" Maximum PSI 150, Double Seat Float Valve.....	1,752.89	57.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0273 EA Pipe Size 2" Maximum PSI 150, Double Seat Float Valve.....	2,296.11	67.69
23 05 23 00-0274 EA Pipe Size 2-1/2" Maximum PSI 150, Double Seat Float Valve	2,675.43	90.77
23 05 23 00-0275 EA Pipe Size 3" Maximum PSI 150, Double Seat Float Valve.....	3,216.25	104.32
23 05 23 00-0276 Float Valve Single Seated Balanced For Air Oil Or Water (23 05 23 00-0259)		
Note: Includes arm, ball and bracket.		
23 05 23 00-0277 Brass Body Threaded Ends (23 05 23 00-0276)		
23 05 23 00-0278 EA 1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	256.66	39.88
23 05 23 00-0279 EA 3/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	289.69	44.30
23 05 23 00-0280 EA 1" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	354.88	49.00
23 05 23 00-0281 EA 1-1/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket	567.79	79.18
23 05 23 00-0282 EA 1-1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket	599.57	90.21
23 05 23 00-0283 EA 2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	681.85	111.84
23 05 23 00-0284 Cast Iron Body Flanged (23 05 23 00-0276)		
23 05 23 00-0285 EA 2-1/2" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	7,449.69	196.45
23 05 23 00-0286 EA 3" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	9,005.70	230.33
23 05 23 00-0287 Float Operated Valves (23 05 23 00-0259)		
23 05 23 00-0288 For Condensate Receivers Tanks And Vessels (23 05 23 00-0287)		
Note: Cast iron body, self-contained, float in-line mount.		
23 05 23 00-0289 EA 1" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	855.93	69.16
23 05 23 00-0290 For Condensate Receivers Tanks And Vessels (23 05 23 00-0287)		
Note: Cast iron body, external float tank mount, flanged.		
23 05 23 00-0291 EA 3/4" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	1,095.79	128.71
23 05 23 00-0292 Needle Valves (23 05 23)		
23 05 23 00-0293 Bronze Needle Valve (23 05 23 00-0292)		
Note: For heating and cooling applications.		
23 05 23 00-0294 EA 1/4" Needle Valve, Bronze.....	123.60	14.72
23 05 23 00-0295 EA 3/8" Needle Valve, Bronze.....	137.22	14.72
23 05 23 00-0296 EA 1/2" Needle Valve, Bronze.....	149.70	14.72
23 05 23 00-0297 EA 3/4" Needle Valve, Bronze.....	225.43	16.19
23 05 23 00-0298 EA 1" Needle Valve, Bronze.....	340.82	18.40
23 05 23 00-0299 Eccentric Valves With Taps (23 05 23)		
23 05 23 00-0300 Screwed Eccentric Valves With Taps (23 05 23 00-0299)		
23 05 23 00-0301 EA 1/2" Diameter Eccentric Valves With Taps, Screwed.....	261.64	14.72
23 05 23 00-0302 EA 3/4" Diameter Eccentric Valves With Taps, Screwed.....	281.43	16.19
23 05 23 00-0303 EA 1" Diameter Eccentric Valves With Taps, Screwed	354.22	18.40
23 05 23 00-0304 EA 1-1/4" Diameter Eccentric Valves With Taps, Screwed	430.88	19.58
23 05 23 00-0305 EA 1-1/2" Diameter Eccentric Valves With Taps, Screwed	472.32	22.66
23 05 23 00-0306 EA 2" Diameter Eccentric Valves With Taps, Screwed	555.50	26.78
23 05 23 00-0307 EA 2-1/2" Diameter Eccentric Valves With Taps, Screwed	833.00	36.18
23 05 23 00-0308 EA 3" Diameter Eccentric Valves With Taps, Screwed	1,009.06	42.00
23 05 23 00-0309 Flanged Eccentric Valves With Taps (23 05 23 00-0299)		
23 05 23 00-0310 EA 2-1/2" Diameter Eccentric Valves With Taps, Flanged	1,020.60	196.45
23 05 23 00-0311 EA 3" Diameter Eccentric Valves With Taps, Flanged.....	1,210.79	230.33
23 05 23 00-0312 EA 4" Diameter Eccentric Valves With Taps, Flanged.....	1,653.52	386.13
23 05 23 00-0313 EA 5" Diameter Eccentric Valves With Taps, Flanged.....	2,138.65	393.64
23 05 23 00-0314 EA 6" Diameter Eccentric Valves With Taps, Flanged.....	2,690.25	437.38
23 05 23 00-0315 EA 8" Diameter Eccentric Valves With Taps, Flanged.....	4,565.55	558.87
23 05 23 00-0316 EA 10" Diameter Eccentric Valves With Taps, Flanged.....	6,369.11	680.37
23 05 23 00-0317 EA 12" Diameter Eccentric Valves With Taps, Flanged.....	10,832.64	826.15
23 05 23 00-0318 Check Valves (23 05 23)		
23 05 23 00-0319 Iron Body Wafer Type Check Valve (23 05 23 00-0318)		
23 05 23 00-0320 Single Disk Type (23 05 23 00-0319)		
23 05 23 00-0321 EA 2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	515.97	196.23
For 150 LB Rating, Add	56.83	
For 200 LB Rating, Add	67.66	
For 300 LB Rating, Add	81.19	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	170.85	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0322	EA		2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	601.00	196.54
			<i>For 150 LB Rating, Add</i>	74.46	
			<i>For 200 LB Rating, Add</i>	88.64	
			<i>For 300 LB Rating, Add</i>	106.37	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	208.84	
23 05 23 00-0323	EA		3" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	736.55	230.43
			<i>For 150 LB Rating, Add</i>	94.11	
			<i>For 200 LB Rating, Add</i>	112.04	
			<i>For 300 LB Rating, Add</i>	134.45	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	259.35	
23 05 23 00-0324	EA		4" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,091.10	386.30
			<i>For 150 LB Rating, Add</i>	127.47	
			<i>For 200 LB Rating, Add</i>	151.75	
			<i>For 300 LB Rating, Add</i>	182.10	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	369.97	
23 05 23 00-0325	EA		6" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,628.50	542.19
			<i>For 150 LB Rating, Add</i>	199.66	
			<i>For 200 LB Rating, Add</i>	237.70	
			<i>For 300 LB Rating, Add</i>	285.23	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	563.40	
23 05 23 00-0326	EA		8" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	2,235.65	623.51
			<i>For 150 LB Rating, Add</i>	306.41	
			<i>For 200 LB Rating, Add</i>	364.77	
			<i>For 300 LB Rating, Add</i>	437.72	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	811.90	
23 05 23 00-0327	EA		10" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	3,286.21	759.06
			<i>For 150 LB Rating, Add</i>	489.39	
			<i>For 200 LB Rating, Add</i>	582.61	
			<i>For 300 LB Rating, Add</i>	699.13	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,239.85	
23 05 23 00-0328 Twin Disc Type (23 05 23 00-0319)					
23 05 23 00-0329	EA		2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB	676.16	196.23
			<i>For 150 LB Rating, Add</i>	90.47	
			<i>For 200 LB Rating, Add</i>	107.70	
			<i>For 300 LB Rating, Add</i>	129.24	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	242.93	
23 05 23 00-0330	EA		2-1/2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	763.47	196.54
			<i>For 150 LB Rating, Add</i>	108.58	
			<i>For 200 LB Rating, Add</i>	129.26	
			<i>For 300 LB Rating, Add</i>	155.11	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	281.95	
23 05 23 00-0331	EA		3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	891.63	230.43
			<i>For 150 LB Rating, Add</i>	126.68	
			<i>For 200 LB Rating, Add</i>	150.81	
			<i>For 300 LB Rating, Add</i>	180.97	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	329.14	
23 05 23 00-0332	EA		4" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,250.17	386.30
			<i>For 150 LB Rating, Add</i>	160.87	
			<i>For 200 LB Rating, Add</i>	191.52	
			<i>For 300 LB Rating, Add</i>	229.82	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	441.55	
23 05 23 00-0333	EA		6" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,913.05	542.19
			<i>For 150 LB Rating, Add</i>	259.42	
			<i>For 200 LB Rating, Add</i>	308.83	
			<i>For 300 LB Rating, Add</i>	370.60	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	691.44	
23 05 23 00-0334	EA		8" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	2,661.09	623.51
			<i>For 150 LB Rating, Add</i>	396.18	
			<i>For 200 LB Rating, Add</i>	471.64	
			<i>For 300 LB Rating, Add</i>	565.97	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,003.86	
23 05 23 00-0335	EA		10" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	3,936.93	745.50
			<i>For 150 LB Rating, Add</i>	627.42	
			<i>For 200 LB Rating, Add</i>	746.93	
			<i>For 300 LB Rating, Add</i>	896.32	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,534.32	
23 05 23 00-0336	EA		12" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	5,151.60	921.71
			<i>For 150 LB Rating, Add</i>	840.61	
			<i>For 200 LB Rating, Add</i>	1,000.73	
			<i>For 300 LB Rating, Add</i>	1,200.87	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	2,031.05	
23 05 23 00-0337	EA		14" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	9,533.73	1,045.49
			<i>For 150 LB Rating, Add</i>	1,709.35	
			<i>For 200 LB Rating, Add</i>	2,034.94	
			<i>For 300 LB Rating, Add</i>	2,441.93	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	3,941.68	
23 05 23 00-0338	EA		16" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	13,024.81	1,226.71
			<i>For 150 LB Rating, Add</i>	2,413.20	
			<i>For 200 LB Rating, Add</i>	2,872.86	
			<i>For 300 LB Rating, Add</i>	3,447.43	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	5,477.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0339 EA 18" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	17,306.19 3,276.51 3,900.61 4,680.73 7,361.85	1,366.11
23 05 23 00-0340 EA 20" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	20,575.29 3,918.30 4,664.64 5,597.57 8,779.70	1,533.38
23 05 23 00-0341 EA 24" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	26,875.77 5,148.51 6,129.18 7,355.02 11,504.33	1,881.87
23 05 23 00-0342 Lift Check Valves (23 05 23 00-0318)		
23 05 23 00-0343 Bronze Body, Threaded, Vertical Lift Check Valves (23 05 23 00-0342) Note: Watts #600 series.		
23 05 23 00-0344 EA 3/8" Lift Check Valve, Bronze, Threaded.....	127.41	14.72
23 05 23 00-0345 EA 1/2" Lift Check Valve, Bronze, Threaded.....	134.77	14.72
23 05 23 00-0346 EA 3/4" Lift Check Valve, Bronze, Threaded.....	172.69	15.45
23 05 23 00-0347 EA 1" Lift Check Valve, Bronze, Threaded.....	225.82	15.45
23 05 23 00-0348 EA 1-1/4" Lift Check Valve, Bronze, Threaded.....	310.77	19.58
23 05 23 00-0349 EA 1-1/2" Lift Check Valve, Bronze, Threaded.....	376.52	22.66
23 05 23 00-0350 EA 2" Lift Check Valve, Bronze, Threaded.....	529.69	26.78
23 05 23 00-0351 Bronze Body, Threaded, 300 LB, Lift Check Valves (23 05 23 00-0342) Note: Crane 366E.		
23 05 23 00-0352 EA 1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	731.14	14.72
23 05 23 00-0353 EA 3/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	889.68	15.45
23 05 23 00-0354 EA 1" Lift Check Valve, Bronze, Threaded, 300 LB.....	1,586.85	15.45
23 05 23 00-0355 EA 1-1/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,113.58	19.58
23 05 23 00-0356 EA 1-1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,297.39	22.66
23 05 23 00-0357 EA 2" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,948.31	26.78
23 05 23 00-0358 Iron Body, Flanged, 125 LB Vertical Lift Check Valves (23 05 23 00-0342) Note: Mueller 105MAP.		
23 05 23 00-0359 EA 2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,111.91	196.17
23 05 23 00-0360 EA 2-1/2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,049.11	196.45
23 05 23 00-0361 EA 3" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,153.84	230.33
23 05 23 00-0362 EA 4" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,647.08	386.13
23 05 23 00-0363 EA 5" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,987.60	393.64
23 05 23 00-0364 EA 6" Lift Check Valve, Iron Body, Flanged, 125 LB.....	2,423.17	437.38
23 05 23 00-0365 EA 8" Lift Check Valve, Iron Body, Flanged, 125 LB.....	4,125.12	558.87
23 05 23 00-0366 EA 10" Lift Check Valve, Iron Body, Flanged, 125 LB.....	5,170.09	680.37
23 05 23 00-0367 EA 12" Lift Check Valve, Iron Body, Flanged, 125 LB.....	8,217.52	826.15
23 05 23 00-0368 EA 14" Lift Check Valve, Iron Body, Flanged, 125 LB.....	11,169.59	1,102.43
23 05 23 00-0369 EA 16" Lift Check Valve, Iron Body, Flanged, 125 LB.....	12,372.29	1,212.67
23 05 23 00-0370 Bronze Body Swing Check Valves (23 05 23 00-0318)		
23 05 23 00-0371 Bronze Body, Threaded, Brazed Or Soldered Installation, 125 LB, Swing Check Valves (23 05 23 00-0370)		
23 05 23 00-0372 EA 1/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.69 16.85 14.24	14.72
23 05 23 00-0373 EA 1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	86.06 16.85 12.86	14.72
23 05 23 00-0374 EA 3/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.31 16.85 13.53	14.72
23 05 23 00-0375 EA 1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.38 17.51 14.24	14.72
23 05 23 00-0376 EA 3/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.38 21.22 19.19	15.45
23 05 23 00-0377 EA 1" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	151.34 28.81 23.24	15.45
23 05 23 00-0378 EA 1-1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	201.81 40.44 29.43	19.58
23 05 23 00-0379 EA 1-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	258.42 56.64 33.96	22.66

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0380	EA		2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	320.48 72.81 40.13	26.78
23 05 23 00-0381	EA		2-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	609.85 167.39 54.20	36.18
23 05 23 00-0382	EA		3" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	818.86 238.06 62.53	42.00
23 05 23 00-0383	EA		4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	927.86 269.40 71.13	47.42
23 05 23 00-0384 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves (23 05 23 00-0318)					
23 05 23 00-0385	EA		1" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	367.69 155.62 297.52 41.65	110.37
23 05 23 00-0386	EA		1-1/4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	412.10 171.46 327.78 47.99	128.76
23 05 23 00-0387	EA		1-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	467.10 185.96 355.51 58.09	154.52
23 05 23 00-0388	EA		2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	584.92 230.96 441.55 73.58	196.17
23 05 23 00-0389	EA		2-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	642.73 269.55 515.31 73.90	196.45
23 05 23 00-0390	EA		3" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	719.03 292.92 559.99 86.48	230.33
23 05 23 00-0391	EA		4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,149.60 452.68 865.42 145.17	386.13
23 05 23 00-0392	EA		5" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,468.68 664.63 1,270.61 147.39	393.64
23 05 23 00-0393	EA		6" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,681.92 770.60 1,473.21 164.60	437.38
23 05 23 00-0394	EA		8" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,523.53 1,923.91 3,678.06 208.28	558.87
23 05 23 00-0395	EA		10" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,701.71 2,618.86 5,006.64 255.14	680.37
23 05 23 00-0396	EA		12" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,036.70 4,083.98 7,807.61 309.26	826.15
23 05 23 00-0397	EA		14" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,177.48 4,623.63 8,839.29 413.41	1,102.43
23 05 23 00-0398	EA		16" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	11,419.19 6,734.28 12,874.36 454.75	1,212.67
23 05 23 00-0399	EA		18" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	17,246.49 10,584.39 20,234.86 504.36	1,344.97
23 05 23 00-0400	EA		20" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	23,559.07 14,731.70 28,163.54 568.44	1,515.84
23 05 23 00-0401	EA		24" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	32,654.04 20,623.45 39,427.18 697.63	1,860.35



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0402			Class 800 Forged Steel, Screwed, Chrome Trim, Bolted Bonnet, Piston Check, Swing Check Valves <small>(23 05 23 00-0318)</small> Note: 800 PSIG at 850 Degrees F.		
23 05 23 00-0403	EA		1/2" Class 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	197.12 14.24	14.72
23 05 23 00-0404	EA		3/4" 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	233.88 19.19	16.19
23 05 23 00-0405	EA		1" Class 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	276.98 23.24	18.40
23 05 23 00-0406	EA		1-1/4" Class 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	424.40 29.43	19.58
23 05 23 00-0407	EA		1-1/2" 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	502.88 33.96	22.66
23 05 23 00-0408	EA		2" Class 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	676.21 40.13	26.78
23 05 23 00-0409			Swing Check Valves, 150 LB Polyvinyl Chloride (PVC) Socket Weld End Connections <small>(23 05 23 00-0318)</small>		
23 05 23 00-0410	EA		1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	78.69 14.24	14.72
23 05 23 00-0411	EA		3/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	95.19 19.19	16.19
23 05 23 00-0412	EA		1" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	109.90 23.24	18.40
23 05 23 00-0413	EA		1-1/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	131.89 29.43	19.58
23 05 23 00-0414	EA		1-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	148.94 33.96	22.66
23 05 23 00-0415	EA		2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	189.34 40.13	26.78
23 05 23 00-0416	EA		2-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	259.76 54.20	36.18
23 05 23 00-0417	EA		3" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	311.09 62.53	42.00
23 05 23 00-0418			Diaphragm Valves <small>(23 05 23)</small>		
23 05 23 00-0419			Polytetrafluoroethylene (PTFE) Or Viton Lined, Threaded Cast Iron Diaphragm Valves <small>(23 05 23 00-0418)</small>		
23 05 23 00-0420	EA		1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	295.72	44.03
23 05 23 00-0421	EA		3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	376.32	48.77
23 05 23 00-0422	EA		1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	410.72	60.29
23 05 23 00-0423	EA		1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	650.11	90.10
23 05 23 00-0424	EA		2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	1,033.44	108.39
23 05 23 00-0425			Polytetrafluoroethylene (PTFE) Or Viton Lined, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0418)</small>		
23 05 23 00-0426	EA		1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	262.66	70.64
23 05 23 00-0427	EA		3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	302.29	73.58
23 05 23 00-0428	EA		1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	365.06	110.37
23 05 23 00-0429	EA		1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	545.53	154.52
23 05 23 00-0430	EA		2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	841.36	196.17
23 05 23 00-0431	EA		2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	1,046.23	196.45
23 05 23 00-0432	EA		3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	1,291.92	230.33
23 05 23 00-0433	EA		4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	1,861.67	386.13
23 05 23 00-0434	EA		6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	3,635.40	437.38
23 05 23 00-0435	EA		8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	5,589.04	558.87
23 05 23 00-0436			Ethylene Propylene Diene Monomer (EPDM) Lined, Threaded Cast Iron Diaphragm Valves <small>(23 05 23 00-0418)</small>		
23 05 23 00-0437	EA		1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	187.59	44.03

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0438 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	242.56	48.77
23 05 23 00-0439 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	276.96	60.29
23 05 23 00-0440 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	467.97	90.10
23 05 23 00-0441 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	609.41	108.39
23 05 23 00-0442 Ethylene Propylene Diene Monomer (EPDM) Lined, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0418)</small>		
23 05 23 00-0443 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	187.05	70.64
23 05 23 00-0444 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	217.92	73.58
23 05 23 00-0445 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	280.68	110.37
23 05 23 00-0446 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	430.63	154.52
23 05 23 00-0447 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	573.83	196.17
23 05 23 00-0448 EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	674.71	196.45
23 05 23 00-0449 EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	816.13	230.33
23 05 23 00-0450 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	1,300.82	386.13
23 05 23 00-0451 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	2,378.91	437.38
23 05 23 00-0452 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	3,596.12	558.87
23 05 23 00-0453 125 LB, Hand Wheel Operated, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0418)</small>		
23 05 23 00-0454 EA 1" Diaphragm Valve, Cast Iron, 125 LB, Flanged	339.64	110.37
23 05 23 00-0455 EA 1-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	536.19	154.52
23 05 23 00-0456 EA 2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	714.81	196.17
23 05 23 00-0457 EA 2-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	978.69	196.45
23 05 23 00-0458 EA 3" Diaphragm Valve, Cast Iron, 125 LB, Flanged	1,088.54	230.33
23 05 23 00-0459 EA 4" Diaphragm Valve, Cast Iron, 125 LB, Flanged	1,721.21	386.13
23 05 23 00-0460 EA 6" Diaphragm Valve, Cast Iron, 125 LB, Flanged	3,235.93	437.38
23 05 23 00-0461 EA 8" Diaphragm Valve, Cast Iron, 125 LB, Flanged	6,547.11	558.87
23 05 23 00-0462 Solenoid Valves <small>(23 05 23)</small>		
23 05 23 00-0463 Bronze Body Solenoid Valves, 150 PSI Maximum Water Pressure <small>(23 05 23 00-0462)</small>		
23 05 23 00-0464 EA 1/4" Solenoid Valve, Bronze, 150 PSI, Water	131.13	14.72
23 05 23 00-0465 EA 1/2" Solenoid Valve, Bronze, 150 PSI, Water	151.57	14.72
23 05 23 00-0466 EA 3/4" Solenoid Valve, Bronze, 150 PSI, Water	194.88	16.19
23 05 23 00-0467 EA 1" Solenoid Valve, Bronze, 150 PSI, Water	282.48	18.40
23 05 23 00-0468 EA 1-1/2" Solenoid Valve, Bronze, 150 PSI, Water	491.70	22.66
23 05 23 00-0469 EA 2" Solenoid Valve, Bronze, 150 PSI, Water	757.82	26.78
23 05 23 00-0470 EA 2-1/2" Solenoid Valve, Bronze, 150 PSI, Water	1,031.73	36.18
23 05 23 00-0471 EA 3" Solenoid Valve, Bronze, 150 PSI, Water	1,481.78	42.00
23 05 23 00-0472 Flow Control Valves And Meters <small>(23 05 23)</small>		
23 05 23 00-0473 Conditioned Water Balancing Valves <small>(23 05 23 00-0472)</small>		
Note: Working pressures up to 300 PSIG. Iron and bronze body construction (combination balancing, flow measuring and shut-off). Excludes portable read-out meter.		
23 05 23 00-0474 EA 1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	178.74	75.08
23 05 23 00-0475 EA 3/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	217.80	100.10
23 05 23 00-0476 EA 1" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,340.49	114.38
23 05 23 00-0477 EA 1-1/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,447.86	141.32
23 05 23 00-0478 EA 1-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,549.97	150.16
23 05 23 00-0479 EA 2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,660.79	171.65
23 05 23 00-0480 EA 2-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	2,949.15	298.74
23 05 23 00-0481 EA 3" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	2,857.01	341.44
23 05 23 00-0482 EA 3" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,594.42	230.43
23 05 23 00-0483 EA 4" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	2,261.06	386.30
23 05 23 00-0484 EA 6" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	3,445.03	487.96
23 05 23 00-0485 EA 8" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	4,618.57	623.51
23 05 23 00-0486 EA 10" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	6,506.22	759.06
23 05 23 00-0487 Read Out Meters <small>(23 05 23 00-0472)</small>		
Note: For use with conditioned portable water balancing valves.		
23 05 23 00-0488 EA 0.5 - 25% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,159.67	
23 05 23 00-0489 EA 0.5 - 50% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,569.37	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 05 23 00-0490 EA 0.5 - 75% Accuracy Read Out Meter For Use With Portable Water Balancing Valve		1,569.37	
	23 05 23 00-0491 EA 0.5 - 100% Accuracy Read Out Meter For Use With Portable Water Balancing Valve		1,569.37	
23 05 23 00-0492	Balancing Valves (23 05 23)			
23 05 23 00-0493	Balancing Valves With Lever (23 05 23 00-0492)			
	Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.			
	23 05 23 00-0494 EA 1/2" Threaded Balancing Valve With Lever		241.75	46.37
	23 05 23 00-0495 EA 3/4" Threaded Balancing Valve With Lever		276.26	61.09
	23 05 23 00-0496 EA 1" Threaded Balancing Valve With Lever		666.52	69.92
	23 05 23 00-0497 EA 1-1/4" Threaded Balancing Valve With Lever		733.12	86.85
	23 05 23 00-0498 EA 1-1/2" Threaded Balancing Valve With Lever		781.01	92.00
	23 05 23 00-0499 EA 2" Threaded Balancing Valve With Lever		1,034.33	105.25
	23 05 23 00-0500 EA 2-1/2" Flanged Balancing Valve With Lever		1,376.54	196.54
	23 05 23 00-0501 EA 3" Flanged Balancing Valve With Lever		1,351.22	230.43
	23 05 23 00-0502 EA 4" Flanged Balancing Valve With Lever		1,701.65	386.30
	23 05 23 00-0503 EA 5" Flanged Balancing Valve With Lever		2,468.61	439.17
	23 05 23 00-0504 EA 6" Flanged Balancing Valve With Lever		2,554.50	487.96
	23 05 23 00-0505 EA 8" Flanged Balancing Valve With Lever		3,409.76	623.51
23 05 23 00-0506	Balancing Valves With Nut (23 05 23 00-0492)			
	Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.			
	23 05 23 00-0507 EA 4" Flanged Balancing Valve With Nut		1,636.06	386.30
	23 05 23 00-0508 EA 5" Flanged Balancing Valve With Nut		2,419.84	439.17
	23 05 23 00-0509 EA 6" Flanged Balancing Valve With Nut		2,483.87	487.96
	23 05 23 00-0510 EA 8" Flanged Balancing Valve With Nut		3,325.68	623.51
23 05 23 00-0511	Balancing Valves With Hand Wheel (23 05 23 00-0492)			
	Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.			
	23 05 23 00-0512 EA 4" Flanged Balancing Valve With Hand Wheel		2,268.38	386.30
	23 05 23 00-0513 EA 5" Flanged Balancing Valve With Hand Wheel		3,089.16	439.17
	23 05 23 00-0514 EA 6" Flanged Balancing Valve With Hand Wheel		3,153.19	487.96
	23 05 23 00-0515 EA 8" Flanged Balancing Valve With Hand Wheel		4,516.32	623.51
	23 05 23 00-0516 EA 10" Flanged Balancing Valve With Hand Wheel		6,928.95	759.06
	23 05 23 00-0517 EA 12" Flanged Balancing Valve With Hand Wheel		9,048.10	591.47
	23 05 23 00-0518 EA 14" Flanged Balancing Valve With Hand Wheel		11,758.30	1,115.18
23 05 23 00-0519	Balancing Valves With Chain Wheel (23 05 23 00-0492)			
	Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.			
	23 05 23 00-0520 EA 4" Flanged Balancing Valve With Chain Wheel		2,624.90	386.30
	23 05 23 00-0521 EA 5" Flanged Balancing Valve With Chain Wheel		3,444.00	439.17
	23 05 23 00-0522 EA 6" Flanged Balancing Valve With Chain Wheel		3,508.03	487.96
	23 05 23 00-0523 EA 8" Flanged Balancing Valve With Chain Wheel		4,943.47	623.51
	23 05 23 00-0524 EA 10" Flanged Balancing Valve With Chain Wheel		7,347.69	759.06
	23 05 23 00-0525 EA 12" Flanged Balancing Valve With Chain Wheel		9,827.10	591.05
	23 05 23 00-0526 EA 14" Flanged Balancing Valve With Chain Wheel		12,432.66	1,115.18
23 05 23 00-0527	Calibrated Balancing Valves (23 05 23 00-0492)			
	Note: Bell & Gossett CB Series.			
	23 05 23 00-0528 EA 1/2" Braze Or Soldered Calibrated Balancing Valve (CB-1/2S)		139.33	14.72
	23 05 23 00-0529 EA 3/4" Braze Or Soldered Calibrated Balancing Valve (CB-3/4S)		165.02	16.19
	23 05 23 00-0530 EA 1" Braze Or Soldered Calibrated Balancing Valve (CB-1S)		201.45	18.40
	23 05 23 00-0531 EA 1-1/4" Braze Or Soldered Calibrated Balancing Valve (CB-1-1/4S)		270.34	19.58
	23 05 23 00-0532 EA 1" Threaded Calibrated Balancing Valve (CB-1)		214.08	18.40
	23 05 23 00-0533 EA 1-1/4" Threaded Calibrated Balancing Valve (CB-1-1/4)		292.15	19.58
	23 05 23 00-0534 EA 1-1/2" Threaded Calibrated Balancing Valve (CB-1-1/2)		339.39	22.67
	23 05 23 00-0535 EA 2" Threaded Calibrated Balancing Valve (CB-2)		455.25	26.79
	23 05 23 00-0536 EA 2-1/2" Threaded Calibrated Balancing Valve (CB-2-1/2)		839.09	39.30
	23 05 23 00-0537 EA 3" Threaded Calibrated Balancing Valve (CB-3)		1,173.47	45.63
	23 05 23 00-0538 EA 2-1/2" Flanged Calibrated Balancing Valve (CB-2-1/2F)		1,117.14	213.45
	23 05 23 00-0539 EA 3" Flanged Calibrated Balancing Valve (CB-3F)		1,604.66	250.26
	23 05 23 00-0540 EA 4" Flanged Calibrated Balancing Valve (CB-4F)		2,517.46	419.54
	23 05 23 00-0541 EA 5" Flanged Calibrated Balancing Valve (CB-5F)		3,597.21	476.95
	23 05 23 00-0542 EA 6" Flanged Calibrated Balancing Valve (CB-6F)		4,711.40	529.95
	23 05 23 00-0543 EA 8" Flanged Calibrated Balancing Valve (CB-8F)		8,446.47	677.15
	23 05 23 00-0544 EA 10" Flanged Calibrated Balancing Valve (CB-10F)		11,706.55	780.63
	23 05 23 00-0545 EA 12" Flanged Calibrated Balancing Valve (CB-12F)		24,450.14	947.91
	23 05 23 00-0546 EA 4" Grooved Calibrated Balancing Valve (CB-4G)		2,889.07	50.67
	23 05 23 00-0547 EA 5" Grooved Calibrated Balancing Valve (CB-5G)		3,329.61	61.96
	23 05 23 00-0548 EA 6" Grooved Calibrated Balancing Valve (CB-6G)		4,423.94	79.46
	23 05 23 00-0549 EA 8" Grooved Calibrated Balancing Valve (CB-8G)		8,266.78	100.84
	23 05 23 00-0550 EA 10" Grooved Calibrated Balancing Valve (CB-10G)		11,106.40	112.99
	23 05 23 00-0551 EA 12" Grooved Calibrated Balancing Valve (CB-12G)		22,840.37	137.77

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0552 Butterfly Valves <small>(23 05 23)</small>		
23 05 23 00-0553 Cast Iron Body, Iron Disc, 150 PSI, Wafer Type, Butterfly Valves <small>(23 05 23 00-0552)</small>		
Note: With on-off handle		
23 05 23 00-0554 EA 2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	377.36	196.17
For 200 PSI, Add	63.40	
For 175 PSI, Add	23.12	
For Work In Restricted Working Space, Add	73.58	
23 05 23 00-0555 EA 2-1/2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	386.11	196.45
For 200 PSI, Add	67.09	
For 175 PSI, Add	24.46	
For Work In Restricted Working Space, Add	73.90	
23 05 23 00-0556 EA 3" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	438.79	230.33
For 200 PSI, Add	72.25	
For 175 PSI, Add	26.34	
For Work In Restricted Working Space, Add	86.48	
23 05 23 00-0557 EA 4" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	672.81	386.13
For 200 PSI, Add	90.68	
For 175 PSI, Add	33.06	
For Work In Restricted Working Space, Add	145.17	
23 05 23 00-0558 EA 5" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	817.46	437.38
For 200 PSI, Add	129.01	
For 175 PSI, Add	47.04	
For Work In Restricted Working Space, Add	164.60	
23 05 23 00-0559 EA 6" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	936.14	485.97
For 200 PSI, Add	157.77	
For 175 PSI, Add	57.52	
For Work In Restricted Working Space, Add	182.24	
23 05 23 00-0560 EA 8" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,188.81	558.87
For 200 PSI, Add	237.39	
For 175 PSI, Add	86.55	
For Work In Restricted Working Space, Add	208.28	
23 05 23 00-0561 EA 10" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,808.85	680.37
For 200 PSI, Add	460.03	
For 175 PSI, Add	167.72	
For Work In Restricted Working Space, Add	255.14	
23 05 23 00-0562 EA 12" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	2,251.89	826.15
For 200 PSI, Add	586.10	
For 175 PSI, Add	213.68	
For Work In Restricted Working Space, Add	309.26	
23 05 23 00-0563 Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0562)</small>		
23 05 23 00-0564 EA 2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	607.74	196.17
For Work In Restricted Working Space, Add	73.58	
23 05 23 00-0565 EA 2-1/2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	611.89	196.45
For Work In Restricted Working Space, Add	73.90	
23 05 23 00-0566 EA 3" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	672.25	230.33
For Work In Restricted Working Space, Add	86.48	
23 05 23 00-0567 EA 4" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	917.01	386.13
For Work In Restricted Working Space, Add	145.17	
23 05 23 00-0568 EA 5" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,087.78	437.38
For Work In Restricted Working Space, Add	164.60	
23 05 23 00-0569 EA 6" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,204.84	485.97
For Work In Restricted Working Space, Add	182.24	
23 05 23 00-0570 EA 8" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,468.35	558.87
For Work In Restricted Working Space, Add	208.28	
23 05 23 00-0571 EA 10" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,850.32	680.37
For Work In Restricted Working Space, Add	255.14	
23 05 23 00-0572 EA 12" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	2,483.82	826.15
For Work In Restricted Working Space, Add	309.26	
23 05 23 00-0573 Cast Iron Body, Bronze Disc, Gear Operated, 150 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0572)</small>		
23 05 23 00-0574 EA 14" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	3,971.74	1,033.52
For 200 PSI, Add	933.74	
For 175 PSI, Add	324.21	
For Work In Restricted Working Space, Add	413.41	
23 05 23 00-0575 EA 16" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	5,000.46	1,212.67
For 200 PSI, Add	1,254.46	
For 175 PSI, Add	435.58	
For Work In Restricted Working Space, Add	454.75	
23 05 23 00-0576 EA 18" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	6,861.54	1,350.48
For 200 PSI, Add	1,863.82	
For 175 PSI, Add	647.16	
For Work In Restricted Working Space, Add	505.28	
23 05 23 00-0577 EA 20" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	8,742.38	1,515.84
For 200 PSI, Add	2,465.13	
For 175 PSI, Add	855.95	
For Work In Restricted Working Space, Add	568.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0578 EA 24" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	11,681.88	1,860.35
<i>For 200 PSI, Add</i>	3,365.94	
<i>For 175 PSI, Add</i>	1,168.73	
<i>For Work In Restricted Working Space, Add</i>	699.62	
23 05 23 00-0579 EA 30" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	23,856.29	2,974.83
<i>For 200 PSI, Add</i>	7,225.25	
<i>For 175 PSI, Add</i>	2,508.77	
<i>For Work In Restricted Working Space, Add</i>	1,135.85	
23 05 23 00-0580 EA 36" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	30,233.13	4,056.58
<i>For 200 PSI, Add</i>	9,180.16	
<i>For 175 PSI, Add</i>	3,187.56	
<i>For Work In Restricted Working Space, Add</i>	1,419.80	
23 05 23 00-0581 EA 42" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	37,043.30	5,949.65
<i>For 200 PSI, Add</i>	10,714.41	
<i>For 175 PSI, Add</i>	3,720.28	
<i>For Work In Restricted Working Space, Add</i>	2,184.32	
23 05 23 00-0582 EA 48" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	45,167.13	7,437.07
<i>For 200 PSI, Add</i>	12,852.64	
<i>For 175 PSI, Add</i>	4,462.72	
<i>For Work In Restricted Working Space, Add</i>	2,839.61	
23 05 23 00-0583 EA 54" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	54,645.02	8,924.48
<i>For 200 PSI, Add</i>	15,412.80	
<i>For 175 PSI, Add</i>	5,351.67	
<i>For Work In Restricted Working Space, Add</i>	3,549.51	
23 05 23 00-0584 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, 175 LB ^(23 05)		
<small>23 00-0552</small>		
<small>Note: (Milwaukee Valve Company BB-SC 100)</small>		
23 05 23 00-0585 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	518.15	18.40
<i>For Work In Restricted Working Space, Add</i>	23.24	
23 05 23 00-0586 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	566.66	19.58
<i>For Work In Restricted Working Space, Add</i>	29.43	
23 05 23 00-0587 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	709.12	22.66
<i>For Work In Restricted Working Space, Add</i>	33.96	
23 05 23 00-0588 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	887.87	26.78
<i>For Work In Restricted Working Space, Add</i>	40.13	
23 05 23 00-0589 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	1,191.69	36.18
<i>For Work In Restricted Working Space, Add</i>	54.19	
23 05 23 00-0590 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, With Tamper Switch, 175 LB ^(23 05 23 00-0552)		
<small>Note: (Milwaukee Valve Company BB-S02)</small>		
23 05 23 00-0591 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	774.71	18.40
<i>For Work In Restricted Working Space, Add</i>	23.24	
23 05 23 00-0592 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	839.72	19.58
<i>For Work In Restricted Working Space, Add</i>	29.43	
23 05 23 00-0593 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	1,003.98	22.66
<i>For Work In Restricted Working Space, Add</i>	33.96	
23 05 23 00-0594 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	1,201.94	26.78
<i>For Work In Restricted Working Space, Add</i>	40.13	
23 05 23 00-0595 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	1,539.00	36.18
<i>For Work In Restricted Working Space, Add</i>	54.19	
23 05 29 Hangers and Supports for HVAC Piping and Equipment ^(23 05)		
23 05 29 00-0001 Hangers And Supports ^(23 05 29)		
23 05 29 00-0002 Clevis Hangers ^(23 05 29 00-0001)		
23 05 29 00-0003 Steel Clevis Hanger (Cooper B-Line B3100) ^(23 05 29 00-0002)		
<small>Note: Type 1.</small>		
23 05 29 00-0004 EA 1/2" Steel Clevis Hanger (Cooper B-Line B3100)	25.98	12.19
<i>For Work In Restricted Working Space, Add</i>	7.32	
23 05 29 00-0005 EA 3/4" Steel Clevis Hanger (Cooper B-Line B3100)	28.69	13.55
<i>For Work In Restricted Working Space, Add</i>	8.13	
23 05 29 00-0006 EA 1" Steel Clevis Hanger (Cooper B-Line B3100)	30.17	13.55
<i>For Work In Restricted Working Space, Add</i>	8.56	
23 05 29 00-0007 EA 1-1/4" Steel Clevis Hanger (Cooper B-Line B3100)	31.21	14.66
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0008 EA 1-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	31.41	14.66
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0009 EA 2" Steel Clevis Hanger (Cooper B-Line B3100)	32.61	14.91
<i>For Work In Restricted Working Space, Add</i>	9.03	
23 05 29 00-0010 EA 2-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	35.06	15.45
<i>For Work In Restricted Working Space, Add</i>	9.30	
23 05 29 00-0011 EA 3" Steel Clevis Hanger (Cooper B-Line B3100)	37.00	16.25
<i>For Work In Restricted Working Space, Add</i>	9.56	
23 05 29 00-0012 EA 3-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	38.91	17.85
<i>For Work In Restricted Working Space, Add</i>	10.20	
23 05 29 00-0013 EA 4" Steel Clevis Hanger (Cooper B-Line B3100)	42.29	18.97
<i>For Work In Restricted Working Space, Add</i>	10.84	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0014 EA 5" Steel Clevis Hanger (Cooper B-Line B3100).....	53.91	22.69
<i>For Work In Restricted Working Space, Add</i>	13.62	
23 05 29 00-0015 EA 6" Steel Clevis Hanger (Cooper B-Line B3100).....	64.71	27.10
<i>For Work In Restricted Working Space, Add</i>	16.26	
23 05 29 00-0016 EA 8" Steel Clevis Hanger (Cooper B-Line B3100).....	85.17	33.88
<i>For Work In Restricted Working Space, Add</i>	20.32	
23 05 29 00-0017 EA 10" Steel Clevis Hanger (Cooper B-Line B3100).....	121.39	46.07
<i>For Work In Restricted Working Space, Add</i>	27.10	
23 05 29 00-0018 EA 12" Steel Clevis Hanger (Cooper B-Line B3100).....	140.76	50.81
<i>For Work In Restricted Working Space, Add</i>	30.49	
23 05 29 00-0019 EA 14" Steel Clevis Hanger (Cooper B-Line B3100).....	171.66	56.91
<i>For Work In Restricted Working Space, Add</i>	34.96	
23 05 29 00-0020 EA 16" Steel Clevis Hanger (Cooper B-Line B3100).....	210.33	67.74
<i>For Work In Restricted Working Space, Add</i>	40.65	
23 05 29 00-0021 EA 18" Steel Clevis Hanger (Cooper B-Line B3100).....	262.32	84.68
<i>For Work In Restricted Working Space, Add</i>	50.81	
23 05 29 00-0022 EA 20" Steel Clevis Hanger (Cooper B-Line B3100).....	398.57	101.62
<i>For Work In Restricted Working Space, Add</i>	60.97	
23 05 29 00-0023 EA 24" Steel Clevis Hanger (Cooper B-Line B3100).....	582.16	118.55
<i>For Work In Restricted Working Space, Add</i>	71.13	
23 05 29 00-0024 Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) (23 05 29 00-0002)		
23 05 29 00-0025 EA 1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	30.19	12.19
<i>For Work In Restricted Working Space, Add</i>	7.32	
23 05 29 00-0026 EA 3/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	32.90	13.55
<i>For Work In Restricted Working Space, Add</i>	8.13	
23 05 29 00-0027 EA 1" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	34.47	13.55
<i>For Work In Restricted Working Space, Add</i>	8.56	
23 05 29 00-0028 EA 1-1/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	35.60	14.66
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0029 EA 1-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	36.14	14.66
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0030 EA 2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	37.07	14.91
<i>For Work In Restricted Working Space, Add</i>	9.03	
23 05 29 00-0031 EA 2-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	40.50	15.45
<i>For Work In Restricted Working Space, Add</i>	9.30	
23 05 29 00-0032 EA 3" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	42.26	16.25
<i>For Work In Restricted Working Space, Add</i>	9.56	
23 05 29 00-0033 EA 3-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	47.52	18.97
<i>For Work In Restricted Working Space, Add</i>	10.84	
23 05 29 00-0034 EA 4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	51.08	18.97
<i>For Work In Restricted Working Space, Add</i>	10.84	
23 05 29 00-0035 EA 5" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	78.70	22.69
<i>For Work In Restricted Working Space, Add</i>	13.62	
23 05 29 00-0036 EA 6" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	96.77	27.10
<i>For Work In Restricted Working Space, Add</i>	16.26	
23 05 29 00-0037 EA 8" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	116.42	33.88
<i>For Work In Restricted Working Space, Add</i>	20.32	
23 05 29 00-0038 Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) (23 05 29 00-0002)		
23 05 29 00-0039 EA 1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	25.83	12.19
<i>For Work In Restricted Working Space, Add</i>	7.32	
23 05 29 00-0040 EA 3/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	28.57	13.55
<i>For Work In Restricted Working Space, Add</i>	8.13	
23 05 29 00-0041 EA 1" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	30.13	13.55
<i>For Work In Restricted Working Space, Add</i>	8.56	
23 05 29 00-0042 EA 1-1/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	30.97	14.66
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0043 EA 1-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	31.09	14.66
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0044 EA 2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	31.95	14.91
<i>For Work In Restricted Working Space, Add</i>	9.03	
23 05 29 00-0045 EA 2-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	34.19	15.45
<i>For Work In Restricted Working Space, Add</i>	9.30	
23 05 29 00-0046 EA 3" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	35.53	16.25
<i>For Work In Restricted Working Space, Add</i>	9.56	
23 05 29 00-0047 EA 3-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	40.11	18.97
<i>For Work In Restricted Working Space, Add</i>	10.84	
23 05 29 00-0048 EA 4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	40.95	18.97
<i>For Work In Restricted Working Space, Add</i>	10.84	
23 05 29 00-0049 Extended Steel Clevis Hanger (Cooper B-Line B3108) (23 05 29 00-0002)		
23 05 29 00-0050 EA 3/4" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	33.83	13.55
<i>For Work In Restricted Working Space, Add</i>	8.13	
23 05 29 00-0051 EA 1" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	35.31	13.55
<i>For Work In Restricted Working Space, Add</i>	8.56	
23 05 29 00-0052 EA 1-1/4" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	36.11	14.66
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0053 EA 1-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	36.95	14.66
<i>For Work In Restricted Working Space, Add</i>	8.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0054 EA 2" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	39.13	14.91
<i>For Work In Restricted Working Space, Add</i>	9.03	
23 05 29 00-0055 EA 2-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	41.49	15.45
<i>For Work In Restricted Working Space, Add</i>	9.30	
23 05 29 00-0056 EA 3" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	43.30	16.25
<i>For Work In Restricted Working Space, Add</i>	9.56	
23 05 29 00-0057 EA 4" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	51.20	18.97
<i>For Work In Restricted Working Space, Add</i>	10.84	
23 05 29 00-0058 EA 5" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	64.53	22.69
<i>For Work In Restricted Working Space, Add</i>	13.62	
23 05 29 00-0059 EA 6" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	78.95	27.10
<i>For Work In Restricted Working Space, Add</i>	16.26	
23 05 29 00-0060 EA 8" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	108.52	33.88
<i>For Work In Restricted Working Space, Add</i>	20.32	
23 05 29 00-0061 EA 10" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	150.63	46.07
<i>For Work In Restricted Working Space, Add</i>	27.10	
23 05 29 00-0062 EA 12" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	169.25	50.81
<i>For Work In Restricted Working Space, Add</i>	30.49	
23 05 29 00-0063 Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) (23 05 29 00-0002)		
23 05 29 00-0064 EA 2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	40.12	14.91
<i>For Work In Restricted Working Space, Add</i>	9.03	
23 05 29 00-0065 EA 2-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	42.41	15.45
<i>For Work In Restricted Working Space, Add</i>	9.30	
23 05 29 00-0066 EA 3" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	44.35	16.25
<i>For Work In Restricted Working Space, Add</i>	9.56	
23 05 29 00-0067 EA 3-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	49.41	18.97
<i>For Work In Restricted Working Space, Add</i>	10.84	
23 05 29 00-0068 EA 4" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	51.50	18.97
<i>For Work In Restricted Working Space, Add</i>	10.84	
23 05 29 00-0069 EA 5" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	64.14	22.69
<i>For Work In Restricted Working Space, Add</i>	13.62	
23 05 29 00-0070 EA 6" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	75.30	27.10
<i>For Work In Restricted Working Space, Add</i>	16.26	
23 05 29 00-0071 EA 8" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	98.42	33.88
<i>For Work In Restricted Working Space, Add</i>	20.32	
23 05 29 00-0072 Adjustable Hangers (23 05 29 00-0001)		
23 05 29 00-0073 Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) (23 05 29 00-0072)		
Note: Type 5.		
23 05 29 00-0074 EA 1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	23.42	10.70
<i>For Work In Restricted Working Space, Add</i>	6.42	
23 05 29 00-0075 EA 3/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	25.77	11.87
<i>For Work In Restricted Working Space, Add</i>	7.12	
23 05 29 00-0076 EA 1" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	28.40	13.19
<i>For Work In Restricted Working Space, Add</i>	7.91	
23 05 29 00-0077 EA 1-1/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	31.40	14.65
<i>For Work In Restricted Working Space, Add</i>	8.79	
23 05 29 00-0078 EA 1-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	32.99	15.38
<i>For Work In Restricted Working Space, Add</i>	9.23	
23 05 29 00-0079 EA 2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	35.08	16.12
<i>For Work In Restricted Working Space, Add</i>	9.67	
23 05 29 00-0080 EA 2-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	39.15	16.85
<i>For Work In Restricted Working Space, Add</i>	10.11	
23 05 29 00-0081 EA 3" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	40.88	17.58
<i>For Work In Restricted Working Space, Add</i>	10.55	
23 05 29 00-0082 EA 4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	47.88	19.79
<i>For Work In Restricted Working Space, Add</i>	11.87	
23 05 29 00-0083 Adjustable Swivel Steel Ring (Cooper B-Line B3170) (23 05 29 00-0072)		
Note: Type 10.		
23 05 29 00-0084 EA 1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	28.03	13.55
<i>For Work In Restricted Working Space, Add</i>	8.13	
<i>For 304 Stainless Steel, Add</i>	6.14	
<i>For 316 Stainless Steel, Add</i>	7.91	
23 05 29 00-0085 EA 3/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	29.54	13.55
<i>For Work In Restricted Working Space, Add</i>	8.56	
<i>For 304 Stainless Steel, Add</i>	6.73	
<i>For 316 Stainless Steel, Add</i>	8.67	
23 05 29 00-0086 EA 1" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	31.12	14.91
<i>For Work In Restricted Working Space, Add</i>	9.03	
<i>For 304 Stainless Steel, Add</i>	6.73	
<i>For 316 Stainless Steel, Add</i>	8.67	
23 05 29 00-0087 EA 1-1/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	33.02	16.25
<i>For Work In Restricted Working Space, Add</i>	9.56	
<i>For 304 Stainless Steel, Add</i>	7.52	
<i>For 316 Stainless Steel, Add</i>	9.69	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0088 EA 1-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	37.27	18.97
For Work In Restricted Working Space, Add	10.84	
For 304 Stainless Steel, Add	7.52	
For 316 Stainless Steel, Add	9.69	
23 05 29 00-0089 EA 2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	39.91	18.97
For Work In Restricted Working Space, Add	11.61	
For 304 Stainless Steel, Add	7.92	
For 316 Stainless Steel, Add	10.20	
23 05 29 00-0090 EA 2-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	43.64	20.33
For Work In Restricted Working Space, Add	12.51	
For 304 Stainless Steel, Add	12.87	
For 316 Stainless Steel, Add	16.58	
23 05 29 00-0091 EA 3" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	47.19	23.03
For Work In Restricted Working Space, Add	13.55	
For 304 Stainless Steel, Add	13.40	
For 316 Stainless Steel, Add	17.26	
23 05 29 00-0092 EA 3-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	52.17	24.72
For Work In Restricted Working Space, Add	14.84	
For 304 Stainless Steel, Add	17.95	
For 316 Stainless Steel, Add	23.12	
23 05 29 00-0093 EA 4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	56.91	27.10
For Work In Restricted Working Space, Add	16.26	
For 304 Stainless Steel, Add	17.95	
For 316 Stainless Steel, Add	23.12	
23 05 29 00-0094 EA 5" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	66.62	30.49
For Work In Restricted Working Space, Add	18.29	
For 304 Stainless Steel, Add	37.29	
For 316 Stainless Steel, Add	48.03	
23 05 29 00-0095 EA 6" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	73.48	33.88
For Work In Restricted Working Space, Add	20.32	
For 304 Stainless Steel, Add	37.88	
For 316 Stainless Steel, Add	48.79	
23 05 29 00-0096 EA 8" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	88.11	40.64
For Work In Restricted Working Space, Add	24.39	
For 304 Stainless Steel, Add	45.01	
For 316 Stainless Steel, Add	57.97	
23 05 29 00-0097 Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) (23 05 29 00-0072)		
23 05 29 00-0098 EA 1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	30.52	13.55
For Work In Restricted Working Space, Add	8.13	
For 304 Stainless Steel, Add	22.57	
For 316 Stainless Steel, Add	29.07	
23 05 29 00-0099 EA 3/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	31.94	13.55
For Work In Restricted Working Space, Add	8.56	
For 304 Stainless Steel, Add	22.57	
For 316 Stainless Steel, Add	29.07	
23 05 29 00-0100 EA 1" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	33.52	14.91
For Work In Restricted Working Space, Add	9.03	
For 304 Stainless Steel, Add	22.57	
For 316 Stainless Steel, Add	29.07	
23 05 29 00-0101 EA 1-1/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	35.30	16.25
For Work In Restricted Working Space, Add	9.56	
For 304 Stainless Steel, Add	22.57	
For 316 Stainless Steel, Add	29.07	
23 05 29 00-0102 EA 1-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	39.84	18.97
For Work In Restricted Working Space, Add	10.84	
For 304 Stainless Steel, Add	24.49	
For 316 Stainless Steel, Add	31.54	
23 05 29 00-0103 EA 2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	42.42	18.97
For Work In Restricted Working Space, Add	11.61	
For 304 Stainless Steel, Add	24.49	
For 316 Stainless Steel, Add	31.54	
23 05 29 00-0104 EA 2-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	51.42	20.33
For Work In Restricted Working Space, Add	12.51	
For 304 Stainless Steel, Add	64.22	
For 316 Stainless Steel, Add	82.71	
23 05 29 00-0105 EA 3" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	57.21	23.03
For Work In Restricted Working Space, Add	13.55	
For 304 Stainless Steel, Add	79.53	
For 316 Stainless Steel, Add	102.43	
23 05 29 00-0106 EA 3-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	62.45	24.72
For Work In Restricted Working Space, Add	14.84	
For 304 Stainless Steel, Add	85.80	
For 316 Stainless Steel, Add	110.50	
23 05 29 00-0107 EA 4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	70.02	27.10
For Work In Restricted Working Space, Add	16.26	
For 304 Stainless Steel, Add	104.48	
For 316 Stainless Steel, Add	134.56	
23 05 29 00-0108 EA 5" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	77.02	30.49
For Work In Restricted Working Space, Add	18.29	
For 304 Stainless Steel, Add	105.93	
For 316 Stainless Steel, Add	136.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0109 EA 6" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	90.98 20.32 153.38 197.54	33.88
23 05 29 00-0110 Roller Hangers (23 05 29 00-0001)		
23 05 29 00-0111 Single Pipe Roll (Cooper B-Line B3114) (23 05 29 00-0110) Note: Excludes rod and nuts. Type 41.		
23 05 29 00-0112 EA 2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	34.87 6.50	10.85
23 05 29 00-0113 EA 2-1/2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	38.57 7.32	12.20
23 05 29 00-0114 EA 3" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	43.42 8.54	14.23
23 05 29 00-0115 EA 3-1/2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	49.87 9.76	16.26
23 05 29 00-0116 EA 4" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	65.81 10.98	18.30
23 05 29 00-0117 EA 5" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	61.71 12.20	20.34
23 05 29 00-0118 EA 6" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	76.12 14.64	24.40
23 05 29 00-0119 EA 8" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	99.33 17.08	28.47
23 05 29 00-0120 EA 10" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	117.86 20.33	33.89
23 05 29 00-0121 Adjustable Clevis Roller Hanger (Cooper B-Line B3110) (23 05 29 00-0110) Note: Type 43.		
23 05 29 00-0122 EA 2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	53.64 11.04 111.14 143.14	19.14
23 05 29 00-0123 EA 2-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	56.29 11.84 111.14 143.14	19.72
23 05 29 00-0124 EA 3" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	60.84 12.62 123.95 159.63	20.61
23 05 29 00-0125 EA 3-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	69.16 13.25 165.00 212.50	22.09
23 05 29 00-0126 EA 4" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	74.07 14.72 165.00 212.50	25.02
23 05 29 00-0127 EA 5" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	83.06 16.16 192.59 248.03	26.94
23 05 29 00-0128 EA 6" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	95.13 17.67 239.18 308.04	29.44
23 05 29 00-0129 EA 8" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	127.84 22.08 357.98 461.04	36.80
23 05 29 00-0130 EA 10" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	162.76 29.44 426.49 549.27	50.06
23 05 29 00-0131 EA 12" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	205.41 33.12 627.00 807.50	55.20
23 05 29 00-0132 EA 14" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	389.84 37.98 1,737.38 2,237.54	63.30

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0133 EA 16" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	485.12	73.60
<i>For Work In Restricted Working Space, Add</i>	44.16	
<i>For 304 Stainless Steel, Add</i>	2,230.21	
<i>For 316 Stainless Steel, Add</i>	2,872.24	
23 05 29 00-0134 Roller Chair (Cooper B-Line B3120) (23 05 29 00-0110)		
23 05 29 00-0135 EA 2" Steel Roller Chair (Cooper B-Line B3120).....	52.53	19.14
<i>For Work In Restricted Working Space, Add</i>	11.04	
23 05 29 00-0136 EA 2-1/2" Steel Roller Chair (Cooper B-Line B3120).....	56.53	19.72
<i>For Work In Restricted Working Space, Add</i>	11.84	
23 05 29 00-0137 EA 3" Steel Roller Chair (Cooper B-Line B3120).....	59.52	20.61
<i>For Work In Restricted Working Space, Add</i>	12.62	
23 05 29 00-0138 EA 3-1/2" Steel Roller Chair (Cooper B-Line B3120).....	66.41	22.09
<i>For Work In Restricted Working Space, Add</i>	13.25	
23 05 29 00-0139 EA 4" Steel Roller Chair (Cooper B-Line B3120).....	73.95	25.02
<i>For Work In Restricted Working Space, Add</i>	14.72	
23 05 29 00-0140 EA 5" Steel Roller Chair (Cooper B-Line B3120).....	80.91	26.94
<i>For Work In Restricted Working Space, Add</i>	16.16	
23 05 29 00-0141 EA 6" Steel Roller Chair (Cooper B-Line B3120).....	96.54	29.44
<i>For Work In Restricted Working Space, Add</i>	17.67	
23 05 29 00-0142 EA 8" Steel Roller Chair (Cooper B-Line B3120).....	124.49	36.80
<i>For Work In Restricted Working Space, Add</i>	22.08	
23 05 29 00-0143 EA 10" Steel Roller Chair (Cooper B-Line B3120).....	161.98	50.06
<i>For Work In Restricted Working Space, Add</i>	29.44	
23 05 29 00-0144 EA 12" Steel Roller Chair (Cooper B-Line B3120).....	203.37	55.20
<i>For Work In Restricted Working Space, Add</i>	33.12	
23 05 29 00-0145 EA 14" Steel Roller Chair (Cooper B-Line B3120).....	224.11	63.30
<i>For Work In Restricted Working Space, Add</i>	37.98	
23 05 29 00-0146 EA 16" Steel Roller Chair (Cooper B-Line B3120).....	268.25	73.60
<i>For Work In Restricted Working Space, Add</i>	44.16	
23 05 29 00-0147 EA 18" Steel Roller Chair (Cooper B-Line B3120).....	356.36	92.00
<i>For Work In Restricted Working Space, Add</i>	55.20	
23 05 29 00-0148 EA 20" Steel Roller Chair (Cooper B-Line B3120).....	438.46	110.41
<i>For Work In Restricted Working Space, Add</i>	66.24	
23 05 29 00-0149 Adjustable Roller Support (Cooper B-Line B3122) (23 05 29 00-0110)		
23 05 29 00-0150 EA 2" Steel Adjustable Roller Support (Cooper B-Line B3122).....	57.70	19.14
<i>For Work In Restricted Working Space, Add</i>	11.04	
23 05 29 00-0151 EA 2-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122).....	64.18	19.72
<i>For Work In Restricted Working Space, Add</i>	11.84	
23 05 29 00-0152 EA 3" Steel Adjustable Roller Support (Cooper B-Line B3122).....	67.69	20.61
<i>For Work In Restricted Working Space, Add</i>	12.62	
23 05 29 00-0153 EA 3-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122).....	71.40	22.09
<i>For Work In Restricted Working Space, Add</i>	13.25	
23 05 29 00-0154 EA 4" Steel Adjustable Roller Support (Cooper B-Line B3122).....	84.41	25.02
<i>For Work In Restricted Working Space, Add</i>	14.72	
23 05 29 00-0155 EA 5" Steel Adjustable Roller Support (Cooper B-Line B3122).....	95.08	26.94
<i>For Work In Restricted Working Space, Add</i>	16.16	
23 05 29 00-0156 EA 6" Steel Adjustable Roller Support (Cooper B-Line B3122).....	109.33	29.44
<i>For Work In Restricted Working Space, Add</i>	17.67	
23 05 29 00-0157 EA 8" Steel Adjustable Roller Support (Cooper B-Line B3122).....	150.83	36.80
<i>For Work In Restricted Working Space, Add</i>	22.08	
23 05 29 00-0158 EA 10" Steel Adjustable Roller Support (Cooper B-Line B3122).....	190.38	50.06
<i>For Work In Restricted Working Space, Add</i>	29.44	
23 05 29 00-0159 EA 12" Steel Adjustable Roller Support (Cooper B-Line B3122).....	219.10	55.20
<i>For Work In Restricted Working Space, Add</i>	33.12	
23 05 29 00-0160 EA 14" Steel Adjustable Roller Support (Cooper B-Line B3122).....	299.40	63.30
<i>For Work In Restricted Working Space, Add</i>	37.98	
23 05 29 00-0161 EA 16" Steel Adjustable Roller Support (Cooper B-Line B3122).....	357.29	73.60
<i>For Work In Restricted Working Space, Add</i>	44.16	
23 05 29 00-0162 EA 18" Steel Adjustable Roller Support (Cooper B-Line B3122).....	411.76	92.00
<i>For Work In Restricted Working Space, Add</i>	55.20	
23 05 29 00-0163 Adjustable Double Roller Support (Cooper B-Line B3122A) (23 05 29 00-0110)		
23 05 29 00-0164 EA 2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	58.00	19.14
<i>For Work In Restricted Working Space, Add</i>	11.04	
23 05 29 00-0165 EA 2-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	64.45	19.72
<i>For Work In Restricted Working Space, Add</i>	11.84	
23 05 29 00-0166 EA 3" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	68.13	20.61
<i>For Work In Restricted Working Space, Add</i>	12.62	
23 05 29 00-0167 EA 3-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	71.01	22.09
<i>For Work In Restricted Working Space, Add</i>	13.25	
23 05 29 00-0168 EA 4" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	87.43	25.02
<i>For Work In Restricted Working Space, Add</i>	14.72	
23 05 29 00-0169 EA 5" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	98.64	26.94
<i>For Work In Restricted Working Space, Add</i>	16.16	
23 05 29 00-0170 EA 6" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	113.58	29.44
<i>For Work In Restricted Working Space, Add</i>	17.67	
23 05 29 00-0171 EA 8" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	157.41	36.80
<i>For Work In Restricted Working Space, Add</i>	22.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0172 EA 10" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	198.28 29.44	50.06
23 05 29 00-0173 EA 12" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	228.34 33.12	55.20
23 05 29 00-0174 EA 14" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	314.17 37.98	63.30
23 05 29 00-0175 Pipe And Riser Clamps <small>(23 05 29 00-0001)</small> Note: Includes bolts and weldless eye nuts.		
23 05 29 00-0176 Steel Pipe Clamp (Cooper B-Line B3140) <small>(23 05 29 00-0175)</small> Note: Type 4.		
23 05 29 00-0177 EA 1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	21.50 5.27	8.79
23 05 29 00-0178 EA 3/4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	21.80 5.36	8.94
23 05 29 00-0179 EA 1" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	22.12 5.45	9.08
23 05 29 00-0180 EA 1-1/4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	23.60 5.54	9.23
23 05 29 00-0181 EA 1-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	23.89 5.63	9.38
23 05 29 00-0182 EA 2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	25.10 5.72	9.52
23 05 29 00-0183 EA 2-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	26.04 5.89	9.81
23 05 29 00-0184 EA 3" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	27.37 6.07	10.11
23 05 29 00-0185 EA 3-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	30.63 6.16	10.26
23 05 29 00-0186 EA 4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	36.49 7.91	13.19
23 05 29 00-0187 EA 5" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	51.32 10.55	17.58
23 05 29 00-0188 EA 6" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	68.72 13.19	21.99
23 05 29 00-0189 EA 8" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	80.71 15.39	25.65
23 05 29 00-0190 EA 10" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	111.66 17.59	29.31
23 05 29 00-0191 EA 12" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	146.53 19.34	32.24
23 05 29 00-0192 EA 14" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	224.33 21.10	35.17
23 05 29 00-0193 EA 16" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	243.14 22.86	38.10
23 05 29 00-0194 EA 18" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	379.45 24.62	41.03
23 05 29 00-0195 EA 20" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	436.20 26.38	43.96
23 05 29 00-0196 EA 24" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	561.85 29.02	48.36
23 05 29 00-0197 Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <small>(23 05 29 00-0175)</small>		
23 05 29 00-0198 EA 3" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	37.63 5.65	9.48
23 05 29 00-0199 EA 4" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	47.29 5.65	9.48
23 05 29 00-0200 EA 5" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	51.54 5.89	9.82
23 05 29 00-0201 EA 6" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	78.34 6.14	10.16
23 05 29 00-0202 EA 8" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	85.01 6.50	10.84
23 05 29 00-0203 EA 10" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	139.96 6.48	10.84
23 05 29 00-0204 EA 12" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	222.63 7.31	12.19
23 05 29 00-0205 EA 14" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	281.07 8.13	13.55
23 05 29 00-0206 EA 16" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	306.74 9.76	16.25
23 05 29 00-0207 EA 18" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	930.80 11.38	18.97
23 05 29 00-0208 EA 20" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,068.82 12.19	20.33
23 05 29 00-0209 EA 24" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,365.88 13.01	21.67
23 05 29 00-0210 Steel Riser Clamp (Cooper B-Line B3373) <small>(23 05 29 00-0175)</small> Note: Type 8.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0211 EA 1/2" Steel Riser Clamp (Cooper B-Line B3373).....	21.15	8.13
For Work In Restricted Working Space, Add	4.88	
23 05 29 00-0212 EA 3/4" Steel Riser Clamp (Cooper B-Line B3373).....	21.88	8.27
For Work In Restricted Working Space, Add	4.96	
23 05 29 00-0213 EA 1" Steel Riser Clamp (Cooper B-Line B3373).....	22.21	8.40
For Work In Restricted Working Space, Add	5.04	
23 05 29 00-0214 EA 1-1/4" Steel Riser Clamp (Cooper B-Line B3373).....	23.62	8.54
For Work In Restricted Working Space, Add	5.12	
23 05 29 00-0215 EA 1-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	24.40	8.67
For Work In Restricted Working Space, Add	5.20	
23 05 29 00-0216 EA 2" Steel Riser Clamp (Cooper B-Line B3373).....	24.94	8.81
For Work In Restricted Working Space, Add	5.28	
23 05 29 00-0217 EA 2-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	25.92	9.08
For Work In Restricted Working Space, Add	5.45	
23 05 29 00-0218 EA 3" Steel Riser Clamp (Cooper B-Line B3373).....	27.28	9.34
For Work In Restricted Working Space, Add	5.61	
23 05 29 00-0219 EA 3-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	29.41	9.48
For Work In Restricted Working Space, Add	5.69	
23 05 29 00-0220 EA 4" Steel Riser Clamp (Cooper B-Line B3373).....	36.21	12.19
For Work In Restricted Working Space, Add	7.32	
23 05 29 00-0221 EA 5" Steel Riser Clamp (Cooper B-Line B3373).....	47.17	16.25
For Work In Restricted Working Space, Add	9.76	
23 05 29 00-0222 EA 6" Steel Riser Clamp (Cooper B-Line B3373).....	59.60	20.33
For Work In Restricted Working Space, Add	12.19	
23 05 29 00-0223 EA 8" Steel Riser Clamp (Cooper B-Line B3373).....	78.46	23.71
For Work In Restricted Working Space, Add	14.23	
23 05 29 00-0224 EA 10" Steel Riser Clamp (Cooper B-Line B3373).....	100.12	27.10
For Work In Restricted Working Space, Add	16.26	
23 05 29 00-0225 EA 12" Steel Riser Clamp (Cooper B-Line B3373).....	118.93	29.81
For Work In Restricted Working Space, Add	17.88	
23 05 29 00-0226 EA 14" Steel Riser Clamp (Cooper B-Line B3373).....	154.28	32.52
For Work In Restricted Working Space, Add	19.51	
23 05 29 00-0227 EA 16" Steel Riser Clamp (Cooper B-Line B3373).....	274.20	35.22
For Work In Restricted Working Space, Add	21.14	
23 05 29 00-0228 Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C) (23 05 29 00-0175)		
23 05 29 00-0229 EA 1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	32.81	8.13
For Work In Restricted Working Space, Add	4.88	
23 05 29 00-0230 EA 3/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	33.33	8.27
For Work In Restricted Working Space, Add	4.96	
23 05 29 00-0231 EA 1" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	34.56	8.40
For Work In Restricted Working Space, Add	5.04	
23 05 29 00-0232 EA 1-1/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	36.62	8.54
For Work In Restricted Working Space, Add	5.12	
23 05 29 00-0233 EA 1-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	40.66	8.67
For Work In Restricted Working Space, Add	5.20	
23 05 29 00-0234 EA 2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	42.91	8.81
For Work In Restricted Working Space, Add	5.28	
23 05 29 00-0235 EA 2-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	46.11	9.08
For Work In Restricted Working Space, Add	5.45	
23 05 29 00-0236 EA 3" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	50.21	9.34
For Work In Restricted Working Space, Add	5.61	
23 05 29 00-0237 EA 4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	67.66	12.19
For Work In Restricted Working Space, Add	7.32	
23 05 29 00-0238 Two Bolt Steel Underground Clamp (Cooper B-Line B3132) (23 05 29 00-0175)		
Note: Type 42		
23 05 29 00-0239 EA 4" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	67.44	9.48
For Work In Restricted Working Space, Add	5.65	
23 05 29 00-0240 EA 6" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	71.76	10.16
For Work In Restricted Working Space, Add	6.14	
23 05 29 00-0241 EA 8" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	78.50	10.84
For Work In Restricted Working Space, Add	6.50	
23 05 29 00-0242 EA 10" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	83.26	10.84
For Work In Restricted Working Space, Add	6.48	
23 05 29 00-0243 EA 12" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	100.09	12.19
For Work In Restricted Working Space, Add	7.31	
23 05 29 00-0244 EA 14" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	293.32	13.55
For Work In Restricted Working Space, Add	8.13	
23 05 29 00-0245 EA 16" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	391.60	16.25
For Work In Restricted Working Space, Add	9.76	
23 05 29 00-0246 EA 18" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	466.32	18.97
For Work In Restricted Working Space, Add	11.38	
23 05 29 00-0247 EA 20" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	674.03	20.33
For Work In Restricted Working Space, Add	12.19	
23 05 29 00-0248 EA 24" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	924.44	21.67
For Work In Restricted Working Space, Add	13.01	
23 05 29 00-0249 Four Bolt Steel Underground Clamp (Cooper B-Line B3134) (23 05 29 00-0175)		
23 05 29 00-0250 EA 4" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	62.77	9.48
For Work In Restricted Working Space, Add	5.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0251 EA 6" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	67.75 6.14	10.16
23 05 29 00-0252 EA 8" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	113.32 6.50	10.84
23 05 29 00-0253 EA 10" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	125.12 6.48	10.84
23 05 29 00-0254 EA 12" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	177.27 7.31	12.19
23 05 29 00-0255 EA 14" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	268.13 8.13	13.55
23 05 29 00-0256 EA 16" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	358.29 9.76	16.25
23 05 29 00-0257 EA 18" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	426.17 11.38	18.97
23 05 29 00-0258 EA 20" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	617.63 12.19	20.33
23 05 29 00-0259 EA 24" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	840.95 13.01	21.67
23 05 29 00-0260 Split Pipe Clamps And Rings (23 05 29 00-0001)		
23 05 29 00-0261 Adjustable Split Ring Swivel Hanger (Cooper B-Line B3171) (23 05 29 00-0260) Note: Type 6.		
23 05 29 00-0262 EA 3/4" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	34.34 7.48	12.45
23 05 29 00-0263 EA 1" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	36.37 7.91	13.19
23 05 29 00-0264 EA 1-1/4" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	39.78 8.79	14.65
23 05 29 00-0265 EA 1-1/2" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	42.56 9.23	15.38
23 05 29 00-0266 EA 2" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	45.61 9.67	16.12
23 05 29 00-0267 EA 2-1/2" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	54.07 10.11	16.85
23 05 29 00-0268 EA 3" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	58.67 10.55	17.58
23 05 29 00-0269 EA 4" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	75.42 11.87	19.79
23 05 29 00-0270 EA 5" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	95.72 14.95	24.92
23 05 29 00-0271 EA 6" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	125.06 17.59	29.31
23 05 29 00-0272 Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) (23 05 29 00-0260) Note: Type 11.		
23 05 29 00-0273 EA 1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	24.07 6.31	10.31
23 05 29 00-0274 EA 3/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	25.32 6.59	10.31
23 05 29 00-0275 EA 1" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	27.99 7.36	13.24
23 05 29 00-0276 EA 1-1/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	30.13 7.75	13.24
23 05 29 00-0277 EA 1-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	32.88 8.03	13.24
23 05 29 00-0278 EA 2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	37.77 8.83	14.72
23 05 29 00-0279 EA 2-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	47.31 9.20	14.72
23 05 29 00-0280 EA 3" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	51.84 9.60	16.19
23 05 29 00-0281 EA 4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	55.55 10.51	17.66
23 05 29 00-0282 Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) (23 05 29 00-0260) Note: Type 12.		
23 05 29 00-0283 EA 1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	24.07 6.31	10.31
23 05 29 00-0284 EA 3/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	25.32 6.59	11.04
23 05 29 00-0285 EA 1" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	27.99 7.36	12.51
23 05 29 00-0286 EA 1-1/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	30.13 7.75	13.24
23 05 29 00-0287 EA 1-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	32.88 8.03	13.24
23 05 29 00-0288 EA 2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	37.77 8.83	14.72
23 05 29 00-0289 EA 2-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	47.31 9.20	15.45

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0290 EA 3" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) <i>For Work In Restricted Working Space, Add</i>	51.84 9.60	16.19
23 05 29 00-0291 Pipe Straps <small>(23 05 29 00-0001)</small>		
23 05 29 00-0292 Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B-3180) <small>(23 05 29 00-0291)</small>		
23 05 29 00-0293 EA 1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	16.52 4.42	7.36
23 05 29 00-0294 EA 3/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	17.29 4.65	8.83
23 05 29 00-0295 EA 1" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	18.15 4.91	8.83
23 05 29 00-0296 EA 1-1/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	19.20 5.19	8.83
23 05 29 00-0297 EA 1-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	20.35 5.52	10.31
23 05 29 00-0298 EA 2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	22.84 5.89	10.31
23 05 29 00-0299 EA 2-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	26.82 6.31	10.31
23 05 29 00-0300 EA 3" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	32.79 6.79	10.31
23 05 29 00-0301 EA 4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	38.71 7.95	13.24
23 05 29 00-0302 EA 6" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	46.27 8.83	14.72
23 05 29 00-0303 EA 8" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	56.09 9.71	16.19
23 05 29 00-0304 Two Hole Copper-Clad Pipe Straps <small>(23 05 29 00-0291)</small>		
23 05 29 00-0305 EA 1/2" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	8.00 2.21	
23 05 29 00-0306 EA 3/4" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	8.47 2.32	
23 05 29 00-0307 EA 1" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	9.40 2.43	
23 05 29 00-0308 EA 1-1/4" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	10.37 2.54	
23 05 29 00-0309 EA 1-1/2" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	11.09 2.65	
23 05 29 00-0310 EA 2" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	12.03 2.87	
23 05 29 00-0311 One Hole Galvanized Steel Pipe Straps <small>(23 05 29 00-0291)</small>		
23 05 29 00-0312 EA 1/2" One Hole Galvanized Steel Pipe Strap (Anvil 185D) <i>For Work In Restricted Working Space, Add</i>	3.25 0.74	
23 05 29 00-0313 EA 3/4" One Hole Galvanized Steel Pipe Strap (Anvil 185D) <i>For Work In Restricted Working Space, Add</i>	3.76 0.79	
23 05 29 00-0314 EA 1" One Hole Galvanized Steel Pipe Strap (Anvil 185D) <i>For Work In Restricted Working Space, Add</i>	4.05 0.85	
23 05 29 00-0315 EA 1-1/4" Galvanized Steel Strap, 1 Hole <i>For Work In Restricted Working Space, Add</i>	4.37 0.92	
23 05 29 00-0316 EA 1-1/2" Galvanized Steel Strap, 1 Hole <i>For Work In Restricted Working Space, Add</i>	4.71 1.01	
23 05 29 00-0317 EA 2" Galvanized Steel Strap, 1 Hole <i>For Work In Restricted Working Space, Add</i>	5.23 1.10	
23 05 29 00-0318 Pipe and Equipment Support Brackets <small>(23 05 29 00-0001)</small>		
23 05 29 00-0319 Pipe and Equipment Supports, Light Duty Welded Steel Bracket (Cooper B-Line B3068) <small>(23 05 29 00-0318)</small> Note: Up to 750# load.		
23 05 29 00-0320 EA 9" x 9" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.35 16.17 9.76	16.25
23 05 29 00-0321 EA 13" x 13" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	114.82 16.46 9.76	16.25
23 05 29 00-0322 EA 19" x 19" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	120.67 17.63 9.76	16.25
23 05 29 00-0323 Pipe and Equipment Supports, Medium Duty Welded Steel Bracket (Cooper B-Line B3066) <small>(23 05 29 00-0318)</small> Note: Up to 1500# load.		



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0324	EA 12" Wide x 18" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) <i>For Galvanized, Add For Work In Restricted Working Space, Add</i>		256.17 44.73 9.76	16.25
23 05 29 00-0325	EA 18" Wide x 24" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) <i>For Galvanized, Add For Work In Restricted Working Space, Add</i>		298.21 53.14 9.76	16.25
23 05 29 00-0326	EA 24" Wide x 30" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) <i>For Galvanized, Add For Work In Restricted Working Space, Add</i>		383.94 70.28 9.76	16.25
23 05 29 00-0327 Pipe Alignment Guide (23 05 29 00-0001)				
23 05 29 00-0328 Pipe Alignment Guide, 1" Insulation (23 05 29 00-0327)				
23 05 29 00-0329	EA 1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1/2)		838.94	25.74
23 05 29 00-0330	EA 3/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3/4)		840.29	26.42
23 05 29 00-0331	EA 1" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1)		841.64	27.10
23 05 29 00-0332	EA 1-1/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/4)		843.00	27.77
23 05 29 00-0333	EA 1-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/2)		921.06	28.45
23 05 29 00-0334	EA 2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2)		938.41	31.16
23 05 29 00-0335	EA 2-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2-1/2)		940.44	32.18
23 05 29 00-0336	EA 3" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3)		942.47	33.19
23 05 29 00-0337	EA 4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-4)		997.42	35.22
23 05 29 00-0338	EA 5" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-5)		1,160.82	44.71
23 05 29 00-0339	EA 6" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-6)		1,179.78	54.19
23 05 29 00-0340	EA 8" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-8)		1,325.43	67.74
23 05 29 00-0341	EA 10" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-10)		2,478.91	81.29
23 05 29 00-0342	EA 12" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-12)		3,782.51	108.39
23 05 29 00-0343	EA 14" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-14)		4,653.25	135.49
23 05 29 00-0344	EA 16" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-16)		5,606.16	151.74
23 05 29 00-0345	EA 18" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-18)		6,043.07	169.36
23 05 29 00-0346	EA 20" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-20)		6,413.53	193.75
23 05 29 00-0347	EA 24" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-24)		8,107.07	203.23
23 05 29 00-0348 Pipe Alignment Guide, 1-1/2" Insulation (23 05 29 00-0327)				
23 05 29 00-0349	EA 1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1/2)		840.29	26.42
23 05 29 00-0350	EA 3/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3/4)		918.34	27.10
23 05 29 00-0351	EA 1" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1)		919.70	27.77
23 05 29 00-0352	EA 1-1/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/4)		921.06	28.45
23 05 29 00-0353	EA 1-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/2)		922.41	29.13
23 05 29 00-0354	EA 2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2)		939.76	31.84
23 05 29 00-0355	EA 2-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2-1/2)		941.79	32.86
23 05 29 00-0356	EA 3" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3)		994.70	33.88
23 05 29 00-0357	EA 4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-4)		998.76	35.91
23 05 29 00-0358	EA 5" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-5)		1,162.85	45.72
23 05 29 00-0359	EA 6" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-6)		1,182.49	55.55
23 05 29 00-0360	EA 8" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-8)		1,328.81	69.44
23 05 29 00-0361	EA 10" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-10)		2,482.97	83.32
23 05 29 00-0362	EA 12" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-12)		3,787.93	111.10
23 05 29 00-0363	EA 14" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-14)		4,660.03	138.87
23 05 29 00-0364	EA 16" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-16)		5,614.30	155.81
23 05 29 00-0365	EA 18" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-18)		6,051.20	173.42
23 05 29 00-0366	EA 20" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-20)		6,423.02	198.49
23 05 29 00-0367	EA 24" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-24)		8,117.23	208.31
23 05 29 00-0368 Pipe Alignment Guide, 2" Insulation (23 05 29 00-0327)				
23 05 29 00-0369	EA 1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1/2)		918.34	27.10
23 05 29 00-0370	EA 3/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3/4)		931.63	27.77
23 05 29 00-0371	EA 1" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1)		932.99	28.45
23 05 29 00-0372	EA 1-1/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/4)		934.34	29.13
23 05 29 00-0373	EA 1-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/2)		935.69	29.81
23 05 29 00-0374	EA 2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2)		991.99	32.52
23 05 29 00-0375	EA 2-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2-1/2)		994.70	33.88
23 05 29 00-0376	EA 3" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3)		996.40	34.72
23 05 29 00-0377	EA 4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-4)		1,144.55	36.58
23 05 29 00-0378	EA 5" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-5)		1,164.88	46.74
23 05 29 00-0379	EA 6" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-6)		1,303.75	56.91
23 05 29 00-0380	EA 8" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-8)		1,463.51	71.13
23 05 29 00-0381	EA 10" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-10)		2,487.03	85.36
23 05 29 00-0382	EA 12" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-12)		3,793.35	113.81
23 05 29 00-0383	EA 14" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-14)		4,666.80	142.26
23 05 29 00-0384	EA 16" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-16)		5,622.12	159.72
23 05 29 00-0385	EA 18" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-18)		6,060.01	177.82
23 05 29 00-0386	EA 20" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-20)		6,432.50	203.23
23 05 29 00-0387	EA 24" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-24)		8,127.40	213.39
23 05 29 00-0388 Pipe Alignment Guide, 2-1/2" Insulation (23 05 29 00-0327)				
23 05 29 00-0389	EA 1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1/2)		931.63	27.77

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0390 EA 3/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3/4).....	983.87	28.45
23 05 29 00-0391 EA 1" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1).....	985.22	29.13
23 05 29 00-0392 EA 1-1/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/4).....	986.57	29.81
23 05 29 00-0393 EA 1-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/2).....	987.93	30.49
23 05 29 00-0394 EA 2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2).....	993.35	33.19
23 05 29 00-0395 EA 2-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2-1/2).....	996.40	34.72
23 05 29 00-0396 EA 3" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3).....	1,142.52	35.56
23 05 29 00-0397 EA 4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-4).....	1,145.91	37.25
23 05 29 00-0398 EA 5" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-5).....	1,284.78	47.42
23 05 29 00-0399 EA 6" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-6).....	1,306.46	58.26
23 05 29 00-0400 EA 8" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-8).....	2,461.97	72.82
23 05 29 00-0401 EA 10" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-10).....	3,740.51	87.39
23 05 29 00-0402 EA 12" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-12).....	4,615.32	116.52
23 05 29 00-0403 EA 14" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-14).....	4,674.40	145.65
23 05 29 00-0404 EA 16" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-16).....	5,630.55	163.94
23 05 29 00-0405 EA 18" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-18).....	6,068.81	182.23
23 05 29 00-0406 EA 20" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-20).....	6,442.66	208.31
23 05 29 00-0407 EA 24" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-24).....	8,138.23	218.81
23 05 29 00-0408 Pipe Alignment Guide, 3" Insulation (23 05 29 00-0327)		
23 05 29 00-0409 EA 1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1/2).....	983.87	28.45
23 05 29 00-0410 EA 3/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3/4).....	985.22	29.13
23 05 29 00-0411 EA 1" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1).....	986.57	29.81
23 05 29 00-0412 EA 1-1/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/4).....	987.93	30.49
23 05 29 00-0413 EA 1-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/2).....	989.29	31.16
23 05 29 00-0414 EA 2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2).....	1,139.13	33.88
23 05 29 00-0415 EA 2-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2-1/2).....	1,142.52	35.56
23 05 29 00-0416 EA 3" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3).....	1,144.55	36.58
23 05 29 00-0417 EA 4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-4).....	1,266.35	38.21
23 05 29 00-0418 EA 5" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-5).....	1,287.49	48.77
23 05 29 00-0419 EA 6" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-6).....	1,440.48	59.61
23 05 29 00-0420 EA 8" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-8).....	2,465.36	74.52
23 05 29 00-0421 EA 10" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-10).....	3,744.57	89.43
23 05 29 00-0422 EA 12" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-12).....	4,620.73	119.23
23 05 29 00-0423 EA 14" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-14).....	4,681.18	149.04
23 05 29 00-0424 EA 16" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-16).....	5,638.68	168.01
23 05 29 00-0425 EA 18" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-18).....	6,076.94	186.29
23 05 29 00-0426 EA 20" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-20).....	6,452.83	213.39
23 05 29 00-0427 EA 24" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-24).....	8,149.07	224.23
23 05 29 00-0428 Pipe Alignment Guide, 3-1/2" Insulation (23 05 29 00-0327)		
23 05 29 00-0429 EA 1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1/2).....	985.22	29.13
23 05 29 00-0430 EA 3/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3/4).....	1,131.00	29.81
23 05 29 00-0431 EA 1" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1).....	1,132.36	30.49
23 05 29 00-0432 EA 1-1/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/4).....	1,133.72	31.16
23 05 29 00-0433 EA 1-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/2).....	1,135.07	31.84
23 05 29 00-0434 EA 2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2).....	1,140.83	34.72
23 05 29 00-0435 EA 2-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2-1/2).....	1,144.28	36.45
23 05 29 00-0436 EA 3" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3).....	1,264.93	37.50
23 05 29 00-0437 EA 4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-4).....	1,268.52	39.29
23 05 29 00-0438 EA 5" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-5).....	1,421.51	50.13
23 05 29 00-0439 EA 6" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-6).....	2,438.26	60.97
23 05 29 00-0440 EA 8" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-8).....	3,718.16	76.21
23 05 29 00-0441 EA 10" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-10).....	4,566.42	91.66
23 05 29 00-0442 EA 12" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-12).....	5,546.54	121.94
23 05 29 00-0443 EA 14" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-14).....	5,608.19	152.76
23 05 29 00-0444 EA 16" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-16).....	6,067.42	172.07
23 05 29 00-0445 EA 18" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-18).....	6,408.11	191.04
23 05 29 00-0446 EA 20" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-20).....	8,136.88	218.14
23 05 29 00-0447 Pipe Alignment Guide, 4" Insulation (23 05 29 00-0327)		
23 05 29 00-0448 EA 1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1/2).....	1,131.00	29.81
23 05 29 00-0449 EA 3/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3/4).....	1,132.36	30.49
23 05 29 00-0450 EA 1" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1).....	1,133.72	31.16
23 05 29 00-0451 EA 1-1/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/4).....	1,135.07	31.84
23 05 29 00-0452 EA 1-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/2).....	1,136.42	32.52
23 05 29 00-0453 EA 2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2).....	1,261.07	35.56
23 05 29 00-0454 EA 2-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2-1/2).....	1,264.46	37.25
23 05 29 00-0455 EA 3" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3).....	1,266.76	38.41
23 05 29 00-0456 EA 4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-4).....	1,401.86	40.31
23 05 29 00-0457 EA 5" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-5).....	2,419.29	51.49
23 05 29 00-0458 EA 6" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-6).....	2,440.97	62.33
23 05 29 00-0459 EA 8" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-8).....	3,721.54	77.91
23 05 29 00-0460 EA 10" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-10).....	4,571.42	94.16
23 05 29 00-0461 EA 12" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-12).....	5,552.64	124.99
23 05 29 00-0462 EA 14" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-14).....	6,015.98	155.81
23 05 29 00-0463 EA 16" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-16).....	6,378.31	176.13
23 05 29 00-0464 EA 18" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-18).....	8,093.52	196.45



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0465 Sway Bracing For No Hub Pipe <small>(23 05 29 00-0001)</small>						
23 05 29 00-0466	EA			1-1/2" Sway Bracing .....162.46	162.46	17.88
				<i>For Work In Restricted Working Space, Add</i> .....10.70		
23 05 29 00-0467	EA			2" Sway Bracing .....167.46	167.46	18.83
				<i>For Work In Restricted Working Space, Add</i> .....11.29		
23 05 29 00-0468	EA			3" Sway Bracing .....173.52	173.52	19.91
				<i>For Work In Restricted Working Space, Add</i> .....11.96		
23 05 29 00-0469	EA			4" Sway Bracing .....196.95	196.95	22.63
				<i>For Work In Restricted Working Space, Add</i> .....13.55		
23 05 29 00-0470	EA			6" Sway Bracing .....289.09	289.09	33.88
				<i>For Work In Restricted Working Space, Add</i> .....20.32		
23 05 29 00-0471	EA			8" Sway Bracing .....321.06	321.06	42.27
				<i>For Work In Restricted Working Space, Add</i> .....25.40		
23 05 29 00-0472	EA			10" Sway Bracing .....363.43	363.43	56.50
				<i>For Work In Restricted Working Space, Add</i> .....33.87		
23 05 29 00-0473 Pipe Stand With Adjustable Saddle (Cooper B-Line B3088T-18 Base, B3093 Adjustable Pipe Saddle) <small>(23 05 29 00-0001)</small>						
Note: Heights listed is total for base and adjustable saddle						
23 05 29 00-0474	EA			23" to 28" High Pipe Stand With Adjustable Saddle For 1-1/4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....340.17	340.17	13.55
				<i>For Work In Restricted Working Space, Add</i> .....8.13		
23 05 29 00-0475	EA			24" to 29" High Pipe Stand With Adjustable Saddle For 1-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....348.25	348.25	14.91
				<i>For Work In Restricted Working Space, Add</i> .....8.94		
23 05 29 00-0476	EA			24" to 29" High Pipe Stand With Adjustable Saddle For 2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....692.15	692.15	16.94
				<i>For Work In Restricted Working Space, Add</i> .....10.16		
23 05 29 00-0477	EA			24" to 29" High Pipe Stand With Adjustable Saddle For 2-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....842.46	842.46	18.97
				<i>For Work In Restricted Working Space, Add</i> .....11.38		
23 05 29 00-0478	EA			24" to 29" High Pipe Stand With Adjustable Saddle For 3" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....853.88	853.88	21.00
				<i>For Work In Restricted Working Space, Add</i> .....12.60		
23 05 29 00-0479	EA			25" to 29" High Pipe Stand With Adjustable Saddle For 3-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....940.19	940.19	23.71
				<i>For Work In Restricted Working Space, Add</i> .....14.23		
23 05 29 00-0480	EA			25" to 30" High Pipe Stand With Adjustable Saddle For 4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....1,119.32	1,119.32	25.74
				<i>For Work In Restricted Working Space, Add</i> .....15.45		
23 05 29 00-0481	EA			25" to 30" High Pipe Stand With Adjustable Saddle For 5" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....1,133.08	1,133.08	27.77
				<i>For Work In Restricted Working Space, Add</i> .....16.67		
23 05 29 00-0482	EA			26" to 31" High Pipe Stand With Adjustable Saddle For 6" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....1,150.71	1,150.71	30.49
				<i>For Work In Restricted Working Space, Add</i> .....18.29		
23 05 29 00-0483	EA			28" to 33" High Pipe Stand With Adjustable Saddle For 8" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....1,199.22	1,199.22	33.19
				<i>For Work In Restricted Working Space, Add</i> .....19.92		
23 05 29 00-0484	EA			29" to 34" High Pipe Stand With Adjustable Saddle For 10" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....1,285.90	1,285.90	36.58
				<i>For Work In Restricted Working Space, Add</i> .....21.95		
23 05 29 00-0485	EA			30" to 35" High Pipe Stand With Adjustable Saddle For 12" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....1,325.45	1,325.45	40.64
				<i>For Work In Restricted Working Space, Add</i> .....24.39		
23 05 29 00-0486	EA			32" to 37" High Pipe Stand With Adjustable Saddle For 14" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....1,613.54	1,613.54	44.71
				<i>For Work In Restricted Working Space, Add</i> .....26.83		
23 05 29 00-0487	EA			33" to 38" High Pipe Stand With Adjustable Saddle For 16" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....1,761.92	1,761.92	50.13
				<i>For Work In Restricted Working Space, Add</i> .....30.08		
23 05 29 00-0488	EA			35" to 40" High Pipe Stand With Adjustable Saddle For 18" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....2,480.80	2,480.80	55.55
				<i>For Work In Restricted Working Space, Add</i> .....33.33		
23 05 29 00-0489	EA			36" to 41" High Pipe Stand With Adjustable Saddle For 20" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....3,061.39	3,061.39	60.97
				<i>For Work In Restricted Working Space, Add</i> .....36.58		
23 05 29 00-0490	EA			39" to 44" High Pipe Stand With Adjustable Saddle For 24" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....3,679.13	3,679.13	66.39
				<i>For Work In Restricted Working Space, Add</i> .....39.83		
23 05 29 00-0491 Channel Mounted Cushion Clamp <small>(23 05 29 00-0001)</small>						
Note: Includes fastening into channel.						
23 05 29 00-0492	EA			1/2" Channel Mounted Cushion Clamp For 3/8" Pipe (Cooper B-Line BVT050).....15.31	15.31	6.10
23 05 29 00-0493	EA			5/8" Channel Mounted Cushion Clamp For 1/2" Pipe (Cooper B-Line BVT062).....16.12	16.12	6.78
23 05 29 00-0494	EA			7/8" Channel Mounted Cushion Clamp For 3/4" Pipe (Cooper B-Line BVT087).....17.62	17.62	7.11
23 05 29 00-0495	EA			1-1/8" Channel Mounted Cushion Clamp For 1" Pipe (Cooper B-Line BVT112).....18.78	18.78	7.45
23 05 29 00-0496	EA			1-3/8" Channel Mounted Cushion Clamp For 1-1/4" Pipe (Cooper B-Line BVT137).....20.85	20.85	8.13
23 05 29 00-0497	EA			1-5/8" Channel Mounted Cushion Clamp For 1-1/2" Pipe (Cooper B-Line BVT162).....22.94	22.94	8.47
23 05 29 00-0498	EA			2-1/8" Channel Mounted Cushion Clamp For 2" Pipe (Cooper B-Line BVT212).....27.87	27.87	8.81

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0499 EA 2-5/8" Channel Mounted Cushion Clamp For 2-1/2" Pipe (Cooper B-Line BVT262)	30.67	9.48
23 05 29 00-0500 EA 3-1/8" Channel Mounted Cushion Clamp For 3" Pipe (Cooper B-Line BVT312)	37.21	10.84
23 05 29 00-0501 EA 4-1/8" Channel Mounted Cushion Clamp For 4" Pipe (Cooper B-Line BVT412)	53.93	12.19
23 05 29 00-0502 Galvanized Steel Cushion Tube Clamp (KMC) (23 05 29 00-0001) Note: Excludes fastening bolt and drilling if necessary.		
23 05 29 00-0503 EA 1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/8" Pipe Note: 19/32" Center To Center Length, 9/32" Hole Diameter For Screw	4.94	
23 05 29 00-0504 EA 1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/8" Pipe Note: 23/32" Center To Center Length, 13/32" Hole Diameter For Screw	5.07	
23 05 29 00-0505 EA 5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1/2" Pipe Note: 23/32" Center To Center Length, 9/32" Hole Diameter For Screw	5.15	
23 05 29 00-0506 EA 5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1/2" Pipe Note: 27/32" Center To Center Length, 13/32" Hole Diameter For Screw	5.37	
23 05 29 00-0507 EA 7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/4" Pipe Note: 27/32" Center To Center Length, 9/32" Hole Diameter For Screw	5.11	
23 05 29 00-0508 EA 7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/4" Pipe Note: 31/32" Center To Center Length, 13/32" Hole Diameter For Screw	5.50	
23 05 29 00-0509 EA 1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1" Pipe Note: 31/32" Center To Center Length, 9/32" Hole Diameter For Screw	5.26	
23 05 29 00-0510 EA 1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1" Pipe Note: 1-1/32" Center To Center Length, 13/32" Hole Diameter For Screw	5.74	
23 05 29 00-0511 EA 1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1" Pipe Note: 1-5/32" Center To Center Length, 17/32" Hole Diameter For Screw	5.76	
23 05 29 00-0512 EA 1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/4" Pipe Note: 1-3/32" Center To Center Length, 9/32" Hole Diameter For Screw	5.48	
23 05 29 00-0513 EA 1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/4" Pipe Note: 1-7/32" Center To Center Length, 13/32" Hole Diameter For Screw	5.70	
23 05 29 00-0514 EA 1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/4" Pipe Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw	6.37	
23 05 29 00-0515 EA 1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/2" Pipe Note: 1-5/16" Center To Center Length, 9/32" Hole Diameter For Screw	5.72	
23 05 29 00-0516 EA 1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/2" Pipe Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw	6.15	
23 05 29 00-0517 EA 1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/2" Pipe Note: 1-13/16" Center To Center Length, 17/32" Hole Diameter For Screw	6.87	
23 05 29 00-0518 EA 2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2" Pipe Note: 1-7/16" Center To Center Length, 9/32" Hole Diameter For Screw	6.93	
23 05 29 00-0519 EA 2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2" Pipe Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw	7.32	
23 05 29 00-0520 EA 2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2" Pipe Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw	8.10	
23 05 29 00-0521 EA 2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2-1/2" Pipe Note: 1-11/16" Center To Center Length, 9/32" Hole Diameter For Screw	8.34	
23 05 29 00-0522 EA 2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2-1/2" Pipe Note: 1-13/16" Center To Center Length, 13/32" Hole Diameter For Screw	9.51	
23 05 29 00-0523 EA 2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2-1/2" Pipe Note: 1-15/16" Center To Center Length, 17/32" Hole Diameter For Screw	9.60	
23 05 29 00-0524 EA 3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3" Pipe Note: 1-15/16" Center To Center Length, 9/32" Hole Diameter For Screw	8.58	
23 05 29 00-0525 EA 3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3" Pipe Note: 2-1/16" Center To Center Length, 13/32" Hole Diameter For Screw	9.51	
23 05 29 00-0526 EA 3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3" Pipe Note: 2-3/16" Center To Center Length, 17/32" Hole Diameter For Screw	10.07	
23 05 29 00-0527 EA 3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3-1/2" Pipe Note: 2-3/16" Center To Center Length, 9/32" Hole Diameter For Screw	8.88	
23 05 29 00-0528 EA 3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3-1/2" Pipe Note: 2-5/16" Center To Center Length, 13/32" Hole Diameter For Screw	9.44	
23 05 29 00-0529 EA 3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3-1/2" Pipe Note: 2-7/16" Center To Center Length, 17/32" Hole Diameter For Screw	11.63	
23 05 29 00-0530 EA 4" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 4" Pipe Note: 2-7/16" Center To Center Length, 9/32" Hole Diameter For Screw	8.82	
23 05 29 00-0531 EA 4" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 4" Pipe Note: 2-9/16" Center To Center Length, 13/32" Hole Diameter For Screw	9.64	
23 05 29 00-0532 EA 4" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 4" Pipe Note: 2-11/16" Center To Center Length, 17/32" Hole Diameter For Screw	12.11	
23 05 29 00-0533 Rooftop Pipe Supports (23 05 29 00-0001) Note: Excludes pipe/conduit clamps and straps.		
23 05 29 00-0534 Rooftop Support Base (23 05 29 00-0533)		
23 05 29 00-0535 EA 4" x 6" x 4.8" Rooftop Support Base (Cooper B-Line Dura-Blok DBM)	48.40	11.04
23 05 29 00-0536 EA 4" x 6" x 9.6" Rooftop Support Base (Cooper B-Line Dura-Blok DBP)	67.40	14.72
23 05 29 00-0537 Rooftop Support Base With 14 Gauge Galvanized Channel (23 05 29 00-0533)		
23 05 29 00-0538 EA 5" x 6" x 4.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB5)	54.96	11.04
23 05 29 00-0539 EA 5" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10)	78.05	14.72
23 05 29 00-0540 EA 5" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB20)	143.88	18.40
23 05 29 00-0541 EA 5" x 6" x 30.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB30)	198.76	22.08
23 05 29 00-0542 EA 5" x 6" x 41.4" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB40)	275.11	25.75
23 05 29 00-0543 EA 5" x 6" x 52" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB48)	290.20	29.43



		MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0544					Rooftop Support Base With 12 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
		EA			6-7/16" x 6" x 9.6" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB610).....	95.45	14.72
		EA			6-7/16" x 6" x 20.2" Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB620).....	151.64	18.40
		EA			6-7/16" x 6" x 30.8" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB630).....	201.87	22.08
		EA			6-7/16" x 6" x 41.4" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB640).....	275.29	25.75
		EA			6-7/16" x 6" x 52" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB648).....	309.50	22.08
23 05 29 00-0550					Rooftop Bridge Support Base With 12 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
		EA			5-5/8" x 6" x 28" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-28).....	159.81	22.08
		EA			5-5/8" x 6" x 36" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-36).....	182.03	25.75
		EA			5-5/8" x 6" x 42" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-42).....	189.32	29.43
		EA			5-5/8" x 6" x 50" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-50).....	207.25	33.11
		EA			5-5/8" x 6" x 60" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-60).....	265.08	36.79
23 05 29 00-0556					Rooftop Pipe Support Base And Rod <small>(23 05 29 00-0533)</small>		
		EA			9.69" To 11.19" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1/2CT).....	116.05	14.72
		EA			9.84" To 11.34" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-3/4CT).....	116.05	14.72
		EA			9.95" To 11.45" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1CT).....	116.71	14.72
		EA			10.13" To 11.63" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/4CT).....	124.73	18.40
		EA			10.28" To 11.78" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/2CT).....	119.97	18.40
		EA			10.53" To 12.03" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-2CT).....	126.08	18.40
23 05 29 00-0563					Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly <small>(23 05 29 00-0533)</small>		
		EA			7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR2-3 1/2).....	147.23	14.72
		EA			7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR4-6).....	164.33	14.72
		EA			8.34" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR8-10).....	215.39	18.40
		EA			9.38" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR12-14).....	285.27	18.40
		EA			9.78" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR16-20).....	389.05	18.40
23 05 29 00-0569					Rooftop Support Base And Adjustable Height Roller Assembly <small>(23 05 29 00-0533)</small>		
					Note: Includes base, two zinc all threaded rod risers and pipe roller.		
		EA			Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Roller Assembly (Cooper B-Line Dura-Blok DBR10-12).....	183.49	22.08
23 05 29 00-0571					Rooftop Support Base And Adjustable Height Channel Assembly <small>(23 05 29 00-0533)</small>		
					Note: Includes base, two zinc all threaded rod and 14 gauge slotted channel.		
		EA			Up To 8" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-8).....	120.29	18.40
		EA			Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-12).....	163.95	22.08
		EA			Up To 16" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-16).....	182.82	25.75
23 05 29 00-0575					Rooftop Support Bases With Channel Support And Risers Assembly <small>(23 05 29 00-0533)</small>		
					Note: Includes two support bases, two 12 gauge galvanized channel risers and one 12 gauge galvanized channel support. Dimensions are "overall" (height x width x length).		
		EA			23" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2318DS).....	441.53	29.43
		EA			29" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2918DS).....	446.45	29.43
		EA			41" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4118DS).....	463.70	29.43
		EA			53" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5318DS).....	503.31	29.43
		EA			23" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2324DS).....	432.75	29.43
		EA			29" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2924DS).....	449.26	29.43
		EA			41" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4124DS).....	466.51	29.43
		EA			53" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5324DS).....	506.10	29.43

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0584 EA 23" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2336DS)	452.37	29.43
23 05 29 00-0585 EA 29" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2936DS)	458.13	29.43
23 05 29 00-0586 EA 41" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4136DS)	475.05	29.43
23 05 29 00-0587 EA 53" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5336DS)	514.82	29.43
23 05 29 00-0588 EA 23" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2348DS)	472.42	29.43
23 05 29 00-0589 EA 29" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2948DS)	477.67	29.43
23 05 29 00-0590 EA 41" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4148DS)	494.60	29.43
23 05 29 00-0591 EA 53" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5348DS)	534.36	29.43
23 05 29 00-0592 Threaded Rod, Accessories And Attachments (23 05 29)		
23 05 29 00-0593 Threaded Rod And Rod Accessories (23 05 29 00-0592)		
23 05 29 00-0594 Threaded Rod (23 05 29 00-0593)		
Note: Fully threaded.		
23 05 29 00-0595 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.61	0.92
For Galvanized, Add	0.71	
For Zinc Plated, Add	0.50	
For Work In Restricted Working Space, Add	0.55	
23 05 29 00-0596 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.78	0.99
For Galvanized, Add	1.13	
For Zinc Plated, Add	0.80	
For Work In Restricted Working Space, Add	0.59	
23 05 29 00-0597 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.39	1.02
For Galvanized, Add	1.74	
For Zinc Plated, Add	1.24	
For Work In Restricted Working Space, Add	0.61	
23 05 29 00-0598 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.02	1.05
For Galvanized, Add	3.17	
For Zinc Plated, Add	2.26	
For Work In Restricted Working Space, Add	0.63	
23 05 29 00-0599 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.87	1.09
For Galvanized, Add	3.48	
For Zinc Plated, Add	2.48	
For Work In Restricted Working Space, Add	0.65	
23 05 29 00-0600 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	14.68	1.22
For Galvanized, Add	4.89	
For Zinc Plated, Add	3.49	
For Work In Restricted Working Space, Add	0.74	
23 05 29 00-0601 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	18.16	1.36
For Galvanized, Add	6.17	
For Zinc Plated, Add	4.40	
For Work In Restricted Working Space, Add	0.82	
23 05 29 00-0602 Rod Couplings (23 05 29 00-0593)		
23 05 29 00-0603 EA 3/8" Diameter, Threaded Rod Coupling Nut	10.25	
For Work In Restricted Working Space, Add	2.71	
23 05 29 00-0604 EA 1/2" Diameter, Threaded Rod Coupling Nut	11.56	
For Work In Restricted Working Space, Add	3.01	
23 05 29 00-0605 EA 5/8" Diameter, Threaded Rod Coupling Nut	14.01	
For Work In Restricted Working Space, Add	3.39	
23 05 29 00-0606 EA 3/4" Diameter, Threaded Rod Coupling Nut	16.57	
For Work In Restricted Working Space, Add	3.70	
23 05 29 00-0607 EA 7/8" Diameter, Threaded Rod Coupling Nut	22.66	
For Work In Restricted Working Space, Add	4.07	
23 05 29 00-0608 EA 1" Diameter, Threaded Rod Coupling Nut	26.84	
For Work In Restricted Working Space, Add	4.78	
23 05 29 00-0609 EA 1-1/8" Diameter, Threaded Rod Coupling Nut	46.91	
For Work In Restricted Working Space, Add	5.42	
23 05 29 00-0610 Flat Washers (23 05 29 00-0593)		
Note: Zinc plated.		
23 05 29 00-0611 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.72	0.29
For Galvanized, Add	0.03	
For Work In Restricted Working Space, Add	0.18	
23 05 29 00-0612 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.92	0.29
For Galvanized, Add	0.06	
For Work In Restricted Working Space, Add	0.21	
23 05 29 00-0613 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.25	0.44
For Galvanized, Add	0.11	
For Work In Restricted Working Space, Add	0.24	
23 05 29 00-0614 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.70	0.44
For Galvanized, Add	0.16	
For Work In Restricted Working Space, Add	0.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0615 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.99	0.59
For Galvanized, Add	0.19	
For Work In Restricted Working Space, Add	0.37	
23 05 29 00-0616 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.31	0.59
For Galvanized, Add	0.24	
For Work In Restricted Working Space, Add	0.41	
23 05 29 00-0617 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.59	0.73
For Galvanized, Add	0.27	
For Work In Restricted Working Space, Add	0.46	
23 05 29 00-0618 Hex Nuts <small>(23 05 29 00-0593)</small>		
Note: Grade 2 and zinc plated.		
23 05 29 00-0619 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.92	0.37
For Galvanized, Add	0.02	
For Work In Restricted Working Space, Add	0.25	
23 05 29 00-0620 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.12	0.37
For Galvanized, Add	0.05	
For Work In Restricted Working Space, Add	0.28	
23 05 29 00-0621 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.42	0.37
For Galvanized, Add	0.11	
For Work In Restricted Working Space, Add	0.29	
23 05 29 00-0622 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.63	0.73
For Galvanized, Add	0.15	
For Work In Restricted Working Space, Add	0.31	
23 05 29 00-0623 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.22	0.73
For Galvanized, Add	0.28	
For Work In Restricted Working Space, Add	0.33	
23 05 29 00-0624 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.76	0.73
For Galvanized, Add	0.38	
For Work In Restricted Working Space, Add	0.37	
23 05 29 00-0625 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	4.26	0.73
For Galvanized, Add	0.72	
For Work In Restricted Working Space, Add	0.41	
23 05 29 00-0626 Turnbuckle (Cooper B-Line B3202) <small>(23 05 29 00-0593)</small>		
Note: Type 13.		
23 05 29 00-0627 EA 3/8" Turnbuckle (Cooper B-Line B3202).....	27.88	7.36
For Work In Restricted Working Space, Add	4.42	
23 05 29 00-0628 EA 1/2" Turnbuckle (Cooper B-Line B3202).....	32.71	8.09
For Work In Restricted Working Space, Add	4.91	
23 05 29 00-0629 EA 5/8" Turnbuckle (Cooper B-Line B3202).....	35.50	8.83
For Work In Restricted Working Space, Add	5.52	
23 05 29 00-0630 EA 3/4" Turnbuckle (Cooper B-Line B3202).....	43.93	10.31
For Work In Restricted Working Space, Add	6.31	
23 05 29 00-0631 EA 7/8" Turnbuckle (Cooper B-Line B3202).....	55.93	11.04
For Work In Restricted Working Space, Add	7.36	
23 05 29 00-0632 EA 1" Turnbuckle (Cooper B-Line B3202).....	69.07	11.78
For Work In Restricted Working Space, Add	8.83	
23 05 29 00-0633 EA 1-1/8" Turnbuckle (Cooper B-Line B3202).....	94.41	13.25
For Work In Restricted Working Space, Add	11.04	
23 05 29 00-0634 Swivel Turnbuckle (Cooper B-Line B3224) <small>(23 05 29 00-0593)</small>		
Note: Type 15.		
23 05 29 00-0635 EA 3/8" Swivel Turnbuckle (Cooper B-Line B3224).....	19.56	7.36
For Work In Restricted Working Space, Add	4.42	
23 05 29 00-0636 EA 1/2" Swivel Turnbuckle (Cooper B-Line B3224).....	22.39	8.24
For Work In Restricted Working Space, Add	4.91	
23 05 29 00-0637 EA 5/8" Swivel Turnbuckle (Cooper B-Line B3224).....	28.54	9.12
For Work In Restricted Working Space, Add	5.52	
23 05 29 00-0638 EA 3/4" Swivel Turnbuckle (Cooper B-Line B3224).....	34.07	10.45
For Work In Restricted Working Space, Add	6.31	
23 05 29 00-0639 Forged Steel Clevis (Cooper B-Line B3201) <small>(23 05 29 00-0593)</small>		
Note: Type 14.		
23 05 29 00-0640 EA 3-9/16" Forged Steel Clevis With Pin, 3/8" To 5/8" Rod Size (Cooper B-Line B3201).....	85.17	13.55
For Work In Restricted Working Space, Add	8.13	
23 05 29 00-0641 EA 4" Forged Steel Clevis With Pin, 3/4" To 7/8" Rod Size (Cooper B-Line B3201).....	121.60	14.22
For Work In Restricted Working Space, Add	8.56	
23 05 29 00-0642 EA 5-1/16" Forged Steel Clevis With Pin, 1" Rod Size (Cooper B-Line B3201).....	131.26	14.91
For Work In Restricted Working Space, Add	9.03	
23 05 29 00-0643 EA 5-1/16" Forged Steel Clevis With Pin, 1-1/8" Rod Size (Cooper B-Line B3201).....	136.88	16.25
For Work In Restricted Working Space, Add	9.56	
23 05 29 00-0644 EA 5-1/16" Forged Steel Clevis With Pin, 1-1/4" Rod Size (Cooper B-Line B3201).....	144.97	18.30
For Work In Restricted Working Space, Add	10.84	
23 05 29 00-0645 EA 6" Forged Steel Clevis With Pin, 1-1/2" Rod Size (Cooper B-Line B3201).....	237.07	23.71
For Work In Restricted Working Space, Add	14.23	
23 05 29 00-0646 EA 5-15/16" Forged Steel Clevis With Pin, 1-3/4" Rod Size (Cooper B-Line B3201).....	258.26	27.10
For Work In Restricted Working Space, Add	16.26	
23 05 29 00-0647 EA 7" Forged Steel Clevis With Pin, 2" Rod Size (Cooper B-Line B3201).....	305.82	33.88
For Work In Restricted Working Space, Add	20.32	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0648 Welded Eye Rod (Cooper B-Line B3211) <small>(23 05 29 00-0593)</small>		
23 05 29 00-0649 EA 3/8" Diameter x 8" Length Shank, Welded Eye Rod	28.18	7.94
<i>For Work In Restricted Working Space, Add</i>	4.78	
23 05 29 00-0650 EA 3/8" Diameter x 10" Length Shank, Welded Eye Rod	29.01	8.09
<i>For Work In Restricted Working Space, Add</i>	4.88	
23 05 29 00-0651 EA 3/8" Diameter x 12" Length Shank, Welded Eye Rod	29.85	8.24
<i>For Work In Restricted Working Space, Add</i>	4.97	
23 05 29 00-0652 EA 3/8" Diameter x 14" Length Shank, Welded Eye Rod	30.15	8.39
<i>For Work In Restricted Working Space, Add</i>	5.06	
23 05 29 00-0653 EA 3/8" Diameter x 18" Length Shank, Welded Eye Rod	31.82	8.69
<i>For Work In Restricted Working Space, Add</i>	5.24	
23 05 29 00-0654 EA 3/8" Diameter x 24" Length Shank, Welded Eye Rod	33.82	9.27
<i>For Work In Restricted Working Space, Add</i>	5.52	
23 05 29 00-0655 EA 3/8" Diameter x 30" Length Shank, Welded Eye Rod	35.26	9.71
<i>For Work In Restricted Working Space, Add</i>	5.80	
23 05 29 00-0656 EA 3/8" Diameter x 36" Length Shank, Welded Eye Rod	37.79	10.15
<i>For Work In Restricted Working Space, Add</i>	6.07	
23 05 29 00-0657 EA 3/8" Diameter x 42" Length Shank, Welded Eye Rod	39.76	10.60
<i>For Work In Restricted Working Space, Add</i>	6.35	
23 05 29 00-0658 EA 3/8" Diameter x 48" Length Shank, Welded Eye Rod	41.75	11.04
<i>For Work In Restricted Working Space, Add</i>	6.62	
23 05 29 00-0659 EA 1/2" Diameter x 8" Length Shank, Welded Eye Rod	36.25	8.83
<i>For Work In Restricted Working Space, Add</i>	5.30	
23 05 29 00-0660 EA 1/2" Diameter x 10" Length Shank, Welded Eye Rod	37.09	8.98
<i>For Work In Restricted Working Space, Add</i>	5.39	
23 05 29 00-0661 EA 1/2" Diameter x 12" Length Shank, Welded Eye Rod	37.96	9.12
<i>For Work In Restricted Working Space, Add</i>	5.49	
23 05 29 00-0662 EA 1/2" Diameter x 14" Length Shank, Welded Eye Rod	38.83	9.27
<i>For Work In Restricted Working Space, Add</i>	5.59	
23 05 29 00-0663 EA 1/2" Diameter x 18" Length Shank, Welded Eye Rod	40.53	9.56
<i>For Work In Restricted Working Space, Add</i>	5.78	
23 05 29 00-0664 EA 1/2" Diameter x 24" Length Shank, Welded Eye Rod	43.64	10.16
<i>For Work In Restricted Working Space, Add</i>	6.08	
23 05 29 00-0665 EA 1/2" Diameter x 30" Length Shank, Welded Eye Rod	46.22	10.60
<i>For Work In Restricted Working Space, Add</i>	6.37	
23 05 29 00-0666 EA 1/2" Diameter x 36" Length Shank, Welded Eye Rod	49.33	11.04
<i>For Work In Restricted Working Space, Add</i>	6.67	
23 05 29 00-0667 EA 1/2" Diameter x 42" Length Shank, Welded Eye Rod	51.88	11.63
<i>For Work In Restricted Working Space, Add</i>	6.96	
23 05 29 00-0668 EA 1/2" Diameter x 48" Length Shank, Welded Eye Rod	54.46	12.07
<i>For Work In Restricted Working Space, Add</i>	7.25	
23 05 29 00-0669 EA 5/8" Diameter x 8" Length Shank, Welded Eye Rod	47.38	9.87
<i>For Work In Restricted Working Space, Add</i>	5.93	
23 05 29 00-0670 EA 5/8" Diameter x 10" Length Shank, Welded Eye Rod	48.77	10.01
<i>For Work In Restricted Working Space, Add</i>	6.03	
23 05 29 00-0671 EA 5/8" Diameter x 12" Length Shank, Welded Eye Rod	50.20	10.16
<i>For Work In Restricted Working Space, Add</i>	6.13	
23 05 29 00-0672 EA 5/8" Diameter x 14" Length Shank, Welded Eye Rod	51.06	10.45
<i>For Work In Restricted Working Space, Add</i>	6.23	
23 05 29 00-0673 EA 5/8" Diameter x 18" Length Shank, Welded Eye Rod	53.33	10.74
<i>For Work In Restricted Working Space, Add</i>	6.44	
23 05 29 00-0674 EA 5/8" Diameter x 24" Length Shank, Welded Eye Rod	57.01	11.18
<i>For Work In Restricted Working Space, Add</i>	6.74	
23 05 29 00-0675 EA 5/8" Diameter x 30" Length Shank, Welded Eye Rod	60.67	11.78
<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0676 EA 5/8" Diameter x 36" Length Shank, Welded Eye Rod	63.82	12.22
<i>For Work In Restricted Working Space, Add</i>	7.35	
23 05 29 00-0677 EA 5/8" Diameter x 42" Length Shank, Welded Eye Rod	67.49	12.80
<i>For Work In Restricted Working Space, Add</i>	7.66	
23 05 29 00-0678 EA 5/8" Diameter x 48" Length Shank, Welded Eye Rod	71.15	13.25
<i>For Work In Restricted Working Space, Add</i>	7.96	
23 05 29 00-0679 EA 3/4" Diameter x 8" Length Shank, Welded Eye Rod	57.51	11.18
<i>For Work In Restricted Working Space, Add</i>	6.74	
23 05 29 00-0680 EA 3/4" Diameter x 10" Length Shank, Welded Eye Rod	59.46	11.33
<i>For Work In Restricted Working Space, Add</i>	6.84	
23 05 29 00-0681 EA 3/4" Diameter x 12" Length Shank, Welded Eye Rod	60.86	11.63
<i>For Work In Restricted Working Space, Add</i>	6.94	
23 05 29 00-0682 EA 3/4" Diameter x 14" Length Shank, Welded Eye Rod	62.81	11.78
<i>For Work In Restricted Working Space, Add</i>	7.05	
23 05 29 00-0683 EA 3/4" Diameter x 18" Length Shank, Welded Eye Rod	66.16	12.07
<i>For Work In Restricted Working Space, Add</i>	7.26	
23 05 29 00-0684 EA 3/4" Diameter x 24" Length Shank, Welded Eye Rod	70.91	12.66
<i>For Work In Restricted Working Space, Add</i>	7.57	
23 05 29 00-0685 EA 3/4" Diameter x 30" Length Shank, Welded Eye Rod	75.68	13.10
<i>For Work In Restricted Working Space, Add</i>	7.88	
23 05 29 00-0686 EA 3/4" Diameter x 36" Length Shank, Welded Eye Rod	80.99	13.69
<i>For Work In Restricted Working Space, Add</i>	8.20	
23 05 29 00-0687 EA 3/4" Diameter x 42" Length Shank, Welded Eye Rod	86.26	14.13
<i>For Work In Restricted Working Space, Add</i>	8.51	
23 05 29 00-0688 EA 3/4" Diameter x 48" Length Shank, Welded Eye Rod	91.03	14.72
<i>For Work In Restricted Working Space, Add</i>	8.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0689 EA 7/8" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	68.54 7.81	12.95
23 05 29 00-0690 EA 7/8" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	71.01 7.92	13.25
23 05 29 00-0691 EA 7/8" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	72.98 8.03	13.40
23 05 29 00-0692 EA 7/8" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	74.94 8.14	13.55
23 05 29 00-0693 EA 7/8" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	78.86 8.36	13.98
23 05 29 00-0694 EA 7/8" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	85.25 8.68	14.42
23 05 29 00-0695 EA 7/8" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	91.12 9.01	15.02
23 05 29 00-0696 EA 7/8" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	97.52 9.34	15.61
23 05 29 00-0697 EA 7/8" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	103.39 9.66	16.04
23 05 29 00-0698 EA 7/8" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	109.26 9.99	16.63
23 05 29 00-0699 EA 1" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	85.27 9.32	15.61
23 05 29 00-0700 EA 1" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	87.80 9.45	15.75
23 05 29 00-0701 EA 1" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	90.34 9.57	15.90
23 05 29 00-0702 EA 1" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	92.86 9.69	16.19
23 05 29 00-0703 EA 1" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	97.92 9.94	16.63
23 05 29 00-0704 EA 1" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	105.53 10.31	17.23
23 05 29 00-0705 EA 1" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	113.15 10.67	17.81
23 05 29 00-0706 EA 1" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	121.24 11.04	18.40
23 05 29 00-0707 EA 1" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	128.86 11.41	18.99
23 05 29 00-0708 EA 1" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	136.47 11.78	19.58
23 05 29 00-0709 Welded Linked Eye Rod (Cooper B-Line B3211X) <small>(23 05 29 00-0593)</small>		
23 05 29 00-0710 EA 3/8" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	54.49 6.48	10.74
23 05 29 00-0711 EA 3/8" Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	55.97 6.66	11.04
23 05 29 00-0712 EA 3/8" Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	57.46 6.84	11.48
23 05 29 00-0713 EA 3/8" Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	58.39 7.12	11.92
23 05 29 00-0714 EA 3/8" Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	61.06 7.40	12.36
23 05 29 00-0715 EA 3/8" Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	64.70 7.95	13.24
23 05 29 00-0716 EA 3/8" Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	67.41 8.50	14.13
23 05 29 00-0717 EA 3/8" Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	71.92 9.05	15.16
23 05 29 00-0718 EA 1/2" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	68.90 7.16	11.93
23 05 29 00-0719 EA 1/2" Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	70.43 7.35	12.22
23 05 29 00-0720 EA 1/2" Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	71.99 7.55	12.51
23 05 29 00-0721 EA 1/2" Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	73.87 7.85	13.10
23 05 29 00-0722 EA 1/2" Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	76.59 8.13	13.55
23 05 29 00-0723 EA 1/2" Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	82.10 8.72	14.57
23 05 29 00-0724 EA 1/2" Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	86.72 9.31	15.46
23 05 29 00-0725 EA 1/2" Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	92.22 9.90	16.48
23 05 29 00-0726 EA 5/8" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	90.24 7.99	13.25
23 05 29 00-0727 EA 5/8" Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	92.67 8.19	13.69
23 05 29 00-0728 EA 5/8" Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	95.13 8.39	13.98
23 05 29 00-0729 EA 5/8" Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	97.04 8.70	14.57

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0730 EA 5/8" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	100.70 9.00	15.02
23 05 29 00-0731 EA 5/8" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	107.16 9.61	16.04
23 05 29 00-0732 EA 5/8" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	113.61 10.22	17.08
23 05 29 00-0733 EA 5/8" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	119.19 10.83	18.10
23 05 29 00-0734 EA 3/4" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	112.78 9.05	15.02
23 05 29 00-0735 EA 3/4" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	116.17 9.26	15.46
23 05 29 00-0736 EA 3/4" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	118.61 9.47	15.75
23 05 29 00-0737 EA 3/4" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	122.32 9.78	16.34
23 05 29 00-0738 EA 3/4" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	127.79 10.09	16.79
23 05 29 00-0739 EA 3/4" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	136.05 10.72	17.81
23 05 29 00-0740 EA 3/4" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	144.35 11.35	18.85
23 05 29 00-0741 EA 3/4" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	153.53 11.97	20.02
23 05 29 00-0742 EA 7/8" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	134.96 10.46	17.37
23 05 29 00-0743 EA 7/8" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	139.23 10.68	17.81
23 05 29 00-0744 EA 7/8" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	142.62 10.90	18.10
23 05 29 00-0745 EA 7/8" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	146.35 11.22	18.70
23 05 29 00-0746 EA 7/8" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	152.79 11.55	19.28
23 05 29 00-0747 EA 7/8" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	163.80 12.20	20.32
23 05 29 00-0748 EA 7/8" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	173.94 12.86	21.49
23 05 29 00-0749 EA 7/8" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	184.96 13.51	22.52
23 05 29 00-0750 EA 1" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	170.84 12.47	20.76
23 05 29 00-0751 EA 1" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	175.20 12.71	21.20
23 05 29 00-0752 EA 1" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	179.56 12.95	21.64
23 05 29 00-0753 EA 1" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	184.34 13.32	22.23
23 05 29 00-0754 EA 1" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	192.61 13.69	22.82
23 05 29 00-0755 EA 1" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	205.71 14.43	24.00
23 05 29 00-0756 EA 1" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	218.82 15.17	25.32
23 05 29 00-0757 EA 1" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	232.71 15.90	26.50
23 05 29 00-0758 Attachments <small>(23 05 29 00-0592)</small>		
23 05 29 00-0759 Welded Beam Attachments (B-Line B-3083) <small>(23 05 29 00-0758)</small> Note: Type 22.		
23 05 29 00-0760 EA 3/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	54.56 8.22	13.70
23 05 29 00-0761 EA 1/2" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	58.15 8.66	14.39
23 05 29 00-0762 EA 5/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	61.86 9.14	15.21
23 05 29 00-0763 EA 3/4" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	77.74 9.68	16.18
23 05 29 00-0764 EA 7/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	92.46 10.28	17.14
23 05 29 00-0765 EA 1" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	128.02 11.75	19.60
23 05 29 00-0766 EA 1-1/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	178.68 12.34	20.57
23 05 29 00-0767 C-Clamp Style Beam Clamps (B-Line B-3034) <small>(23 05 29 00-0758)</small> Note: Type 23. Top or bottom flange mount.		
23 05 29 00-0768 EA 3/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	21.72 5.52	7.50
23 05 29 00-0769 EA 1/2" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	25.38 5.89	9.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0770 EA 5/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	28.51	10.31
<i>For Work In Restricted Working Space, Add</i>	6.31	
23 05 29 00-0771 EA 3/4" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	35.62	11.04
<i>For Work In Restricted Working Space, Add</i>	6.80	
23 05 29 00-0772 EA 7/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	49.73	11.78
<i>For Work In Restricted Working Space, Add</i>	7.36	
23 05 29 00-0773 Bottom Mount I-Beam Clamps (B-Line B-3055) (23 05 29 00-0758)		
Note: Type 21. For attaching threaded rod centered under beam flanges.		
23 05 29 00-0774 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	53.68	10.31
<i>For Work In Restricted Working Space, Add</i>	7.36	
23 05 29 00-0775 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	76.73	13.25
<i>For Work In Restricted Working Space, Add</i>	8.03	
23 05 29 00-0776 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	107.57	14.72
<i>For Work In Restricted Working Space, Add</i>	8.83	
23 05 29 00-0777 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	128.17	16.19
<i>For Work In Restricted Working Space, Add</i>	9.82	
23 05 29 00-0778 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	300.36	17.66
<i>For Work In Restricted Working Space, Add</i>	11.04	
23 05 29 00-0779 Steel U-Bolts (B-Line B-3188) (23 05 29 00-0758)		
Note: Type 24. Includes plate and nuts.		
23 05 29 00-0780 EA 1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	17.64	3.68
<i>For Work In Restricted Working Space, Add</i>	4.42	
23 05 29 00-0781 EA 3/4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	19.03	4.41
<i>For Work In Restricted Working Space, Add</i>	4.65	
23 05 29 00-0782 EA 1" Pipe Size, Steel U-Bolt (B-Line B-3188).....	20.40	4.41
<i>For Work In Restricted Working Space, Add</i>	4.91	
23 05 29 00-0783 EA 1-1/4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	22.89	4.41
<i>For Work In Restricted Working Space, Add</i>	5.19	
23 05 29 00-0784 EA 1-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	23.77	5.15
<i>For Work In Restricted Working Space, Add</i>	5.52	
23 05 29 00-0785 EA 2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	25.42	5.15
<i>For Work In Restricted Working Space, Add</i>	5.89	
23 05 29 00-0786 EA 2-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	34.91	5.15
<i>For Work In Restricted Working Space, Add</i>	6.31	
23 05 29 00-0787 EA 3" Pipe Size, Steel U-Bolt (B-Line B-3188).....	38.36	5.88
<i>For Work In Restricted Working Space, Add</i>	6.79	
23 05 29 00-0788 EA 4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	45.67	6.63
<i>For Work In Restricted Working Space, Add</i>	7.36	
23 05 29 00-0789 Copper Standoff Brackets With Flange (23 05 29 00-0758)		
Note: Installed in wood, concrete, concrete block or steel.		
23 05 29 00-0790 EA Clamp Size 1/2", Copper Standoff Brackets With Flange.....	43.57	21.05
<i>For Work In Restricted Working Space, Add</i>	12.62	
23 05 29 00-0791 EA Clamp Size 3/4", Copper Standoff Brackets With Flange.....	43.66	21.05
<i>For Work In Restricted Working Space, Add</i>	12.62	
23 05 29 00-0792 EA Clamp Size 1", Copper Standoff Brackets With Flange.....	43.75	21.05
<i>For Work In Restricted Working Space, Add</i>	12.62	
23 05 29 00-0793 EA Clamp Size 1 1/4", Copper Standoff Brackets With Flange.....	46.47	22.38
<i>For Work In Restricted Working Space, Add</i>	13.38	
23 05 29 00-0794 EA Clamp Size 1 1/2", Copper Standoff Brackets With Flange.....	46.66	22.38
<i>For Work In Restricted Working Space, Add</i>	13.38	
23 05 29 00-0795 Malleable Iron Eye Sockets (B-Line B-3222) (23 05 29 00-0758)		
Note: Type 16.		
23 05 29 00-0796 EA 3/8" Rod Size, Malleable Iron Eye Socket.....	11.82	2.21
<i>For Work In Restricted Working Space, Add</i>	1.34	
23 05 29 00-0797 EA 1/2" Rod Size, Malleable Iron Eye Socket.....	15.10	2.95
<i>For Work In Restricted Working Space, Add</i>	1.76	
23 05 29 00-0798 EA 5/8" Rod Size, Malleable Iron Eye Socket.....	24.88	2.95
<i>For Work In Restricted Working Space, Add</i>	1.78	
23 05 29 00-0799 EA 3/4" Rod Size, Malleable Iron Eye Socket.....	34.42	2.95
<i>For Work In Restricted Working Space, Add</i>	1.76	
23 05 29 00-0800 EA 7/8" Rod Size, Malleable Iron Eye Socket.....	37.44	3.68
<i>For Work In Restricted Working Space, Add</i>	2.21	
23 05 29 00-0801 Steel Weldless Eye Nuts (B-Line B-3200) (23 05 29 00-0758)		
Note: Type 17.		
23 05 29 00-0802 EA 3/8" Rod Size, Steel Weldless Eye Nut.....	35.87	2.21
<i>For Work In Restricted Working Space, Add</i>	1.34	
23 05 29 00-0803 EA 1/2" Rod Size, Steel Weldless Eye Nut.....	37.28	2.95
<i>For Work In Restricted Working Space, Add</i>	1.76	
23 05 29 00-0804 EA 5/8" Rod Size, Steel Weldless Eye Nut.....	37.34	2.95
<i>For Work In Restricted Working Space, Add</i>	1.78	
23 05 29 00-0805 EA 3/4" Rod Size, Steel Weldless Eye Nut.....	37.28	2.95
<i>For Work In Restricted Working Space, Add</i>	1.76	
23 05 29 00-0806 EA 7/8" Rod Size, Steel Weldless Eye Nut.....	71.43	3.24
<i>For Work In Restricted Working Space, Add</i>	1.99	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0807 EA 1" Rod Size, Steel Weldless Eye Nut..... <i>For Work In Restricted Working Space, Add</i>	72.16 2.21	3.68
23 05 29 00-0808 Top Mount I-Beam Clamps (B-Line B-3042) (23 05 29 00-0758) Note: For attaching threaded rod to either side of an I-beam.		
23 05 29 00-0809 EA 3/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	27.03 4.11	6.86
23 05 29 00-0810 EA 1/2" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	32.18 4.54	7.54
23 05 29 00-0811 EA 5/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	38.56 4.99	8.22
23 05 29 00-0812 EA 3/4" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	51.62 5.24	8.91
23 05 29 00-0813 EA 7/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	77.64 6.17	10.28
23 05 29 00-0814 EA 3/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	28.27 4.11	6.86
23 05 29 00-0815 EA 1/2" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	33.93 4.54	7.54
23 05 29 00-0816 EA 5/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	38.56 4.99	8.22
23 05 29 00-0817 EA 3/4" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	56.22 5.24	8.91
23 05 29 00-0818 EA 7/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	85.50 6.17	10.28
23 05 29 00-0819 EA 3/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	31.15 4.11	6.86
23 05 29 00-0820 EA 1/2" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	37.17 4.54	7.54
23 05 29 00-0821 EA 5/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	46.14 4.99	8.22
23 05 29 00-0822 EA 3/4" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	64.82 5.24	8.91
23 05 29 00-0823 EA 7/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	102.32 6.17	10.28
23 05 29 00-0824 Side Beam Brackets (B-Line B-3062) (23 05 29 00-0758) Note: Type 34.		
23 05 29 00-0825 EA 3/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	23.77 5.52	9.56
23 05 29 00-0826 EA 1/2" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	27.60 5.89	9.56
23 05 29 00-0827 EA 5/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	34.62 6.31	10.31
23 05 29 00-0828 EA 3/4" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	57.80 6.80	11.04
23 05 29 00-0829 EA 7/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	67.15 7.36	12.51
23 05 29 00-0830 Hex Lag Bolts (23 05 29 00-0758) Note: Also known as coach screws.		
23 05 29 00-0831 EA 3/8" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.67 0.92	
23 05 29 00-0832 EA 3/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.74 0.95	
23 05 29 00-0833 EA 3/8" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.11 0.99	
23 05 29 00-0834 EA 3/8" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.75 1.02	
23 05 29 00-0835 EA 3/8" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.03 1.06	
23 05 29 00-0836 EA 3/8" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.08 1.10	
23 05 29 00-0837 EA 1/2" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.83 1.10	
23 05 29 00-0838 EA 1/2" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.93 1.15	
23 05 29 00-0839 EA 1/2" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.57 1.20	
23 05 29 00-0840 EA 1/2" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.29 1.25	
23 05 29 00-0841 EA 1/2" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.22 1.31	
23 05 29 00-0842 EA 1/2" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.70 1.38	
23 05 29 00-0843 EA 5/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.33 1.23	
23 05 29 00-0844 EA 3/4" x 5" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.19 1.25	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0845				Hanger Strap <small>(23 05 29 00-0592)</small>		
23 05 29 00-0846	LF			3/4" Wide x 0.025" Thick Galvanized Hanger Strap.....	7.05	
23 05 29 00-0847				Shields And Saddles <small>(23 05 29)</small>		
23 05 29 00-0848				Insulation Protection Shield <small>(23 05 29 00-0847)</small>		
				Note: Type 40.		
23 05 29 00-0849				Insulation Protection Shield (Cooper B-Line B3151) <small>(23 05 29 00-0848)</small>		
23 05 29 00-0850	EA			1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	17.24	3.53
				<i>For Work In Restricted Working Space, Add</i>	3.53	
23 05 29 00-0851	EA			2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	17.49	3.58
				<i>For Work In Restricted Working Space, Add</i>	3.58	
23 05 29 00-0852	EA			2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	17.86	3.62
				<i>For Work In Restricted Working Space, Add</i>	3.62	
23 05 29 00-0853	EA			3" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	18.53	3.66
				<i>For Work In Restricted Working Space, Add</i>	3.67	
23 05 29 00-0854	EA			4" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	20.11	3.75
				<i>For Work In Restricted Working Space, Add</i>	3.75	
23 05 29 00-0855	EA			6" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	23.59	3.84
				<i>For Work In Restricted Working Space, Add</i>	3.84	
23 05 29 00-0856	EA			8" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....	26.74	3.93
				<i>For Work In Restricted Working Space, Add</i>	3.93	
23 05 29 00-0857	EA			10" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....	31.68	4.02
				<i>For Work In Restricted Working Space, Add</i>	4.02	
23 05 29 00-0858	EA			12" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	39.26	4.06
				<i>For Work In Restricted Working Space, Add</i>	4.07	
23 05 29 00-0859	EA			14" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	42.34	4.10
				<i>For Work In Restricted Working Space, Add</i>	4.11	
23 05 29 00-0860	EA			16" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	56.35	4.15
				<i>For Work In Restricted Working Space, Add</i>	4.15	
23 05 29 00-0861	EA			18" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	62.70	4.19
				<i>For Work In Restricted Working Space, Add</i>	4.19	
23 05 29 00-0862	EA			20" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	111.74	4.24
				<i>For Work In Restricted Working Space, Add</i>	4.24	
23 05 29 00-0863	EA			24" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	121.10	4.32
				<i>For Work In Restricted Working Space, Add</i>	4.33	
23 05 29 00-0864	EA			30" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	145.32	4.42
				<i>For Work In Restricted Working Space, Add</i>	4.42	
23 05 29 00-0865				Insulation Protection Shield (Cooper B-Line B3154) <small>(23 05 29 00-0848)</small>		
23 05 29 00-0866	EA			1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	15.74	3.53
				<i>For Work In Restricted Working Space, Add</i>	3.53	
23 05 29 00-0867	EA			2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	15.96	3.58
				<i>For Work In Restricted Working Space, Add</i>	3.58	
23 05 29 00-0868	EA			2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	16.27	3.62
				<i>For Work In Restricted Working Space, Add</i>	3.62	
23 05 29 00-0869	EA			3" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	16.80	3.66
				<i>For Work In Restricted Working Space, Add</i>	3.67	
23 05 29 00-0870	EA			4" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	18.02	3.75
				<i>For Work In Restricted Working Space, Add</i>	3.75	
23 05 29 00-0871	EA			6" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	20.62	3.84
				<i>For Work In Restricted Working Space, Add</i>	3.84	
23 05 29 00-0872	EA			8" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	21.91	3.93
				<i>For Work In Restricted Working Space, Add</i>	3.93	
23 05 29 00-0873	EA			10" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	26.66	4.02
				<i>For Work In Restricted Working Space, Add</i>	4.02	
23 05 29 00-0874	EA			12" Outside Diameter, 14 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	31.01	4.06
				<i>For Work In Restricted Working Space, Add</i>	4.07	
23 05 29 00-0875				Pipe Covering Protection Saddle <small>(23 05 29 00-0847)</small>		
				Note: Sizes are pipe sizes.		
23 05 29 00-0876				Saddle, For 1" Insulation (Cooper B-Line B3160) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0877	EA			3/4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160)	25.73	4.85
				<i>For Work In Restricted Working Space, Add</i>	4.85	
23 05 29 00-0878	EA			1" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160)	25.86	4.89
				<i>For Work In Restricted Working Space, Add</i>	4.89	
23 05 29 00-0879	EA			1-1/4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160)	25.99	4.94
				<i>For Work In Restricted Working Space, Add</i>	4.93	
23 05 29 00-0880	EA			1-1/2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160)	27.07	5.02
				<i>For Work In Restricted Working Space, Add</i>	5.02	
23 05 29 00-0881	EA			2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160)	27.21	5.06
				<i>For Work In Restricted Working Space, Add</i>	5.06	
23 05 29 00-0882	EA			2-1/2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160)	28.01	5.14
				<i>For Work In Restricted Working Space, Add</i>	5.14	
23 05 29 00-0883	EA			3" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160)	30.54	5.22
				<i>For Work In Restricted Working Space, Add</i>	5.22	
23 05 29 00-0884	EA			4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160)	33.60	5.30
				<i>For Work In Restricted Working Space, Add</i>	5.31	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0885 EA 6" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	37.16	5.46
<i>For Work In Restricted Working Space, Add</i>	5.47	
23 05 29 00-0886 EA 8" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	44.02	5.68
<i>For Work In Restricted Working Space, Add</i>	5.68	
23 05 29 00-0887 EA 10" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	48.47	5.76
<i>For Work In Restricted Working Space, Add</i>	5.76	
23 05 29 00-0888 EA 12" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	56.29	5.76
<i>For Work In Restricted Working Space, Add</i>	5.88	
23 05 29 00-0889 EA 14" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	60.90	5.96
<i>For Work In Restricted Working Space, Add</i>	5.96	
23 05 29 00-0890 Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) (23 05 29 00-0875)		
23 05 29 00-0891 EA 3/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	28.27	4.85
<i>For Work In Restricted Working Space, Add</i>	4.85	
23 05 29 00-0892 EA 1" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	28.40	4.89
<i>For Work In Restricted Working Space, Add</i>	4.89	
23 05 29 00-0893 EA 1-1/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	28.53	4.94
<i>For Work In Restricted Working Space, Add</i>	4.93	
23 05 29 00-0894 EA 1-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	29.44	5.02
<i>For Work In Restricted Working Space, Add</i>	5.02	
23 05 29 00-0895 EA 2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	31.35	5.06
<i>For Work In Restricted Working Space, Add</i>	5.06	
23 05 29 00-0896 EA 2-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	33.40	5.14
<i>For Work In Restricted Working Space, Add</i>	5.14	
23 05 29 00-0897 EA 3" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	33.95	5.22
<i>For Work In Restricted Working Space, Add</i>	5.22	
23 05 29 00-0898 EA 4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	37.80	5.22
<i>For Work In Restricted Working Space, Add</i>	5.31	
23 05 29 00-0899 EA 6" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	41.91	5.46
<i>For Work In Restricted Working Space, Add</i>	5.47	
23 05 29 00-0900 EA 8" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	48.68	5.68
<i>For Work In Restricted Working Space, Add</i>	5.68	
23 05 29 00-0901 EA 10" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	53.98	5.76
<i>For Work In Restricted Working Space, Add</i>	5.76	
23 05 29 00-0902 EA 12" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	63.09	5.88
<i>For Work In Restricted Working Space, Add</i>	5.88	
23 05 29 00-0903 EA 14" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	68.52	5.96
<i>For Work In Restricted Working Space, Add</i>	5.96	
23 05 29 00-0904 Saddle, For 2" Insulation (Cooper B-Line B3162) (23 05 29 00-0875)		
23 05 29 00-0905 EA 3/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	30.12	5.10
<i>For Work In Restricted Working Space, Add</i>	5.10	
23 05 29 00-0906 EA 1" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	30.27	5.14
<i>For Work In Restricted Working Space, Add</i>	5.14	
23 05 29 00-0907 EA 1-1/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	31.59	5.18
<i>For Work In Restricted Working Space, Add</i>	5.18	
23 05 29 00-0908 EA 1-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	32.46	5.26
<i>For Work In Restricted Working Space, Add</i>	5.26	
23 05 29 00-0909 EA 2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	33.20	5.30
<i>For Work In Restricted Working Space, Add</i>	5.31	
23 05 29 00-0910 EA 2-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	33.47	5.39
<i>For Work In Restricted Working Space, Add</i>	5.39	
23 05 29 00-0911 EA 3" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	35.12	5.47
<i>For Work In Restricted Working Space, Add</i>	5.47	
23 05 29 00-0912 EA 4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	36.75	5.55
<i>For Work In Restricted Working Space, Add</i>	5.55	
23 05 29 00-0913 EA 6" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	45.30	5.76
<i>For Work In Restricted Working Space, Add</i>	5.76	
23 05 29 00-0914 EA 8" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	50.68	5.96
<i>For Work In Restricted Working Space, Add</i>	5.96	
23 05 29 00-0915 EA 10" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	52.97	6.05
<i>For Work In Restricted Working Space, Add</i>	6.05	
23 05 29 00-0916 EA 12" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	69.15	6.17
<i>For Work In Restricted Working Space, Add</i>	6.17	
23 05 29 00-0917 EA 14" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	75.88	6.25
<i>For Work In Restricted Working Space, Add</i>	6.25	
23 05 29 00-0918 EA 16" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	82.90	6.41
<i>For Work In Restricted Working Space, Add</i>	6.41	
23 05 29 00-0919 EA 18" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	89.92	6.58
<i>For Work In Restricted Working Space, Add</i>	6.58	
23 05 29 00-0920 EA 20" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	98.06	6.74
<i>For Work In Restricted Working Space, Add</i>	6.74	
23 05 29 00-0921 EA 24" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	111.35	6.91
<i>For Work In Restricted Working Space, Add</i>	6.91	
23 05 29 00-0922 Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) (23 05 29 00-0875)		
23 05 29 00-0923 EA 1-1/4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	33.29	5.31
<i>For Work In Restricted Working Space, Add</i>	5.31	
23 05 29 00-0924 EA 1-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	34.89	5.39
<i>For Work In Restricted Working Space, Add</i>	5.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0925 EA 2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	35.69	5.44
<i>For Work In Restricted Working Space, Add</i>	5.43	
23 05 29 00-0926 EA 2-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	36.64	5.53
<i>For Work In Restricted Working Space, Add</i>	5.51	
23 05 29 00-0927 EA 3" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	37.04	5.62
<i>For Work In Restricted Working Space, Add</i>	5.63	
23 05 29 00-0928 EA 4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	42.10	5.70
<i>For Work In Restricted Working Space, Add</i>	5.72	
23 05 29 00-0929 EA 6" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	47.43	5.88
<i>For Work In Restricted Working Space, Add</i>	5.88	
23 05 29 00-0930 EA 8" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	54.38	6.10
<i>For Work In Restricted Working Space, Add</i>	6.09	
23 05 29 00-0931 EA 10" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	57.92	6.20
<i>For Work In Restricted Working Space, Add</i>	6.21	
23 05 29 00-0932 EA 12" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	70.93	6.32
<i>For Work In Restricted Working Space, Add</i>	6.33	
23 05 29 00-0933 EA 14" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	82.96	6.41
<i>For Work In Restricted Working Space, Add</i>	6.41	
23 05 29 00-0934 EA 16" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	95.25	6.56
<i>For Work In Restricted Working Space, Add</i>	6.58	
23 05 29 00-0935 EA 18" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	100.91	6.73
<i>For Work In Restricted Working Space, Add</i>	6.74	
23 05 29 00-0936 EA 20" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	107.19	6.91
<i>For Work In Restricted Working Space, Add</i>	6.91	
23 05 29 00-0937 EA 24" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	113.46	7.07
<i>For Work In Restricted Working Space, Add</i>	7.07	
23 05 29 00-0938 Saddle, For 3" Insulation (Cooper B-Line B3164) (23 05 29 00-0875)		
23 05 29 00-0939 EA 2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	36.85	5.57
<i>For Work In Restricted Working Space, Add</i>	5.55	
23 05 29 00-0940 EA 2-1/2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	39.79	5.66
<i>For Work In Restricted Working Space, Add</i>	5.68	
23 05 29 00-0941 EA 3" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	41.32	5.74
<i>For Work In Restricted Working Space, Add</i>	5.76	
23 05 29 00-0942 EA 4" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	42.86	5.84
<i>For Work In Restricted Working Space, Add</i>	5.84	
23 05 29 00-0943 EA 6" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	48.46	6.01
<i>For Work In Restricted Working Space, Add</i>	6.01	
23 05 29 00-0944 EA 8" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	59.38	6.24
<i>For Work In Restricted Working Space, Add</i>	6.25	
23 05 29 00-0945 EA 10" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	63.87	6.33
<i>For Work In Restricted Working Space, Add</i>	6.33	
23 05 29 00-0946 EA 12" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	81.19	6.47
<i>For Work In Restricted Working Space, Add</i>	6.46	
23 05 29 00-0947 EA 14" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	95.71	6.56
<i>For Work In Restricted Working Space, Add</i>	6.58	
23 05 29 00-0948 EA 16" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	110.26	6.72
<i>For Work In Restricted Working Space, Add</i>	6.71	
23 05 29 00-0949 EA 18" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	112.45	6.90
<i>For Work In Restricted Working Space, Add</i>	6.91	
23 05 29 00-0950 EA 20" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	114.53	7.06
<i>For Work In Restricted Working Space, Add</i>	7.07	
23 05 29 00-0951 EA 24" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)	143.50	7.24
<i>For Work In Restricted Working Space, Add</i>	7.24	
23 05 29 00-0952 Saddle, For 4" Insulation (Cooper B-Line B3165) (23 05 29 00-0875)		
23 05 29 00-0953 EA 2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	40.93	5.69
<i>For Work In Restricted Working Space, Add</i>	5.68	
23 05 29 00-0954 EA 2-1/2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	44.36	5.78
<i>For Work In Restricted Working Space, Add</i>	5.80	
23 05 29 00-0955 EA 3" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	46.15	5.88
<i>For Work In Restricted Working Space, Add</i>	5.88	
23 05 29 00-0956 EA 4" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	48.02	5.96
<i>For Work In Restricted Working Space, Add</i>	5.96	
23 05 29 00-0957 EA 6" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	57.44	6.16
<i>For Work In Restricted Working Space, Add</i>	6.17	
23 05 29 00-0958 EA 8" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	66.84	6.39
<i>For Work In Restricted Working Space, Add</i>	6.38	
23 05 29 00-0959 EA 10" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	68.99	6.48
<i>For Work In Restricted Working Space, Add</i>	6.50	
23 05 29 00-0960 EA 12" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	86.43	6.62
<i>For Work In Restricted Working Space, Add</i>	6.62	
23 05 29 00-0961 EA 14" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	103.52	6.71
<i>For Work In Restricted Working Space, Add</i>	6.71	
23 05 29 00-0962 EA 16" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	120.88	6.88
<i>For Work In Restricted Working Space, Add</i>	6.87	
23 05 29 00-0963 EA 18" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	146.40	7.04
<i>For Work In Restricted Working Space, Add</i>	7.03	
23 05 29 00-0964 EA 20" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	171.84	7.22
<i>For Work In Restricted Working Space, Add</i>	7.24	
23 05 29 00-0965 EA 24" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)	183.47	7.40
<i>For Work In Restricted Working Space, Add</i>	7.40	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0966 EA 30" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	192.89 7.61	7.59
23 05 29 00-0967 EA 36" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	199.88 7.77	7.78
23 05 29 00-0968 Adjustable Pipe Saddle Support (Cooper B-Line B3096) (23 05 29 00-0847)		
23 05 29 00-0969 EA 2" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	90.44	18.40
23 05 29 00-0970 EA 3" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	96.96	21.34
23 05 29 00-0971 EA 4" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	117.10	24.29
23 05 29 00-0972 EA 5" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	122.75	26.50
23 05 29 00-0973 EA 6" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	136.24	29.44
23 05 29 00-0974 EA 8" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	157.29	36.80
23 05 29 00-0975 EA 10" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	206.38	49.31
23 05 29 00-0976 EA 12" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	264.42	73.60
23 05 29 00-0977 Pipe Stanchion Support (Cooper B-Line B3090) (23 05 29 00-0847)		
23 05 29 00-0978 EA 2-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	108.77	18.40
23 05 29 00-0979 EA 3" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	114.03	21.34
23 05 29 00-0980 EA 3-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	122.39	22.82
23 05 29 00-0981 EA 4" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	125.83	24.29
23 05 29 00-0982 EA 5" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	132.80	26.50
23 05 29 00-0983 EA 6" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	141.77	29.44
23 05 29 00-0984 EA 8" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	179.60	36.80
23 05 29 00-0985 EA 10" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	241.87	49.31
23 05 29 00-0986 EA 12" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	323.18	73.60
23 05 29 00-0987 Pipe Saddle Support (Cooper B-Line B3095) (23 05 29 00-0847)		
23 05 29 00-0988 EA 2-1/2" Pipe Saddle Support (Cooper B-Line B3095).....	62.31	18.40
23 05 29 00-0989 EA 3" Pipe Saddle Support (Cooper B-Line B3095).....	67.57	21.34
23 05 29 00-0990 EA 3-1/2" Pipe Saddle Support (Cooper B-Line B3095).....	95.44	22.82
23 05 29 00-0991 EA 4" Pipe Saddle Support (Cooper B-Line B3095).....	98.88	24.29
23 05 29 00-0992 EA 5" Pipe Saddle Support (Cooper B-Line B3095).....	108.37	26.50
23 05 29 00-0993 EA 6" Pipe Saddle Support (Cooper B-Line B3095).....	120.19	29.44
23 05 29 00-0994 EA 8" Pipe Saddle Support (Cooper B-Line B3095).....	140.04	36.80
23 05 29 00-0995 EA 10" Pipe Saddle Support (Cooper B-Line B3095).....	167.81	49.31
23 05 29 00-0996 EA 12" Pipe Saddle Support (Cooper B-Line B3095).....	220.38	73.60
23 05 29 00-0997 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0847)		
Note: Insert is for use as isolated protective insulation at hangers.		
23 05 29 00-0998 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-0999 EA 1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.42	8.92
23 05 29 00-1000 EA 3/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.67	8.92
23 05 29 00-1001 EA 1" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.74	8.92
23 05 29 00-1002 EA 1-1/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.99	8.92
23 05 29 00-1003 EA 1-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	21.38	9.47
23 05 29 00-1004 EA 2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	22.28	9.75
23 05 29 00-1005 EA 2-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	23.31	10.16
23 05 29 00-1006 EA 3" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	24.44	10.57
23 05 29 00-1007 EA 4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.26	10.98
23 05 29 00-1008 EA 6" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.48	9.47
23 05 29 00-1009 EA 8" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	39.46	12.35
23 05 29 00-1010 EA 10" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	46.60	14.55
23 05 29 00-1011 EA 12" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	53.33	16.89
23 05 29 00-1012 EA 14" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	59.07	17.43
23 05 29 00-1013 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1014 EA 1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	16.16	6.73
23 05 29 00-1015 EA 3/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	17.43	6.73
23 05 29 00-1016 EA 1" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	17.79	6.86
23 05 29 00-1017 EA 1-1/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	18.30	7.00
23 05 29 00-1018 EA 1-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	18.80	7.00
23 05 29 00-1019 EA 2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.67	7.27
23 05 29 00-1020 EA 2-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	20.73	7.55
23 05 29 00-1021 EA 3" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	21.30	7.68
23 05 29 00-1022 EA 4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	23.33	8.38
23 05 29 00-1023 EA 6" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.01	14.41
23 05 29 00-1024 EA 8" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	31.19	10.84
23 05 29 00-1025 EA 10" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	37.58	12.76
23 05 29 00-1026 EA 12" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	42.81	14.68
23 05 29 00-1027 EA 14" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	50.72	17.71



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1028		2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
23 05 29 00-1029	EA	1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	21.44	7.68
23 05 29 00-1030	EA	3/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	21.65	7.68
23 05 29 00-1031	EA	1" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	22.28	7.83
23 05 29 00-1032	EA	1-1/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	22.84	7.97
23 05 29 00-1033	EA	1-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	23.44	8.10
23 05 29 00-1034	EA	2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	24.32	8.38
23 05 29 00-1035	EA	2-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.54	8.65
23 05 29 00-1036	EA	3" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.67	8.92
23 05 29 00-1037	EA	4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	29.11	9.47
23 05 29 00-1038	EA	6" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	33.24	10.71
23 05 29 00-1039	EA	8" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	52.73	18.26
23 05 29 00-1040	EA	10" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	58.36	21.14
23 05 29 00-1041	EA	12" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	67.70	24.98
23 05 29 00-1042	EA	14" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	75.93	28.00
23 05 29 00-1043	EA	16" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	84.97	31.57
23 05 29 00-1044	EA	18" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	97.92	37.06
23 05 29 00-1045	EA	20" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	108.75	41.19
23 05 29 00-1046	EA	24" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	122.95	46.68
23 05 29 00-1047		2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
23 05 29 00-1048	EA	1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	24.60	8.92
23 05 29 00-1049	EA	3/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	24.83	8.92
23 05 29 00-1050	EA	1" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.62	9.06
23 05 29 00-1051	EA	1-1/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.19	9.20
23 05 29 00-1052	EA	1-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.76	9.20
23 05 29 00-1053	EA	2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	27.86	9.61
23 05 29 00-1054	EA	2-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	29.22	9.89
23 05 29 00-1055	EA	3" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	30.53	10.30
23 05 29 00-1056	EA	4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	33.29	10.84
23 05 29 00-1057	EA	6" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.07	12.35
23 05 29 00-1058	EA	8" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	48.37	13.73
23 05 29 00-1059	EA	10" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	57.25	15.79
23 05 29 00-1060	EA	12" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	66.61	19.63
23 05 29 00-1061	EA	14" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	74.62	21.55
23 05 29 00-1062	EA	16" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	89.79	27.46
23 05 29 00-1063	EA	18" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	95.92	28.83
23 05 29 00-1064	EA	20" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	109.08	32.95
23 05 29 00-1065	EA	24" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	129.26	39.81
23 05 29 00-1066		3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
23 05 29 00-1067	EA	1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	50.75	9.20
23 05 29 00-1068	EA	3/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	60.25	9.61
23 05 29 00-1069	EA	1" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	62.52	9.61
23 05 29 00-1070	EA	1-1/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	64.00	9.89
23 05 29 00-1071	EA	1-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	65.73	10.16
23 05 29 00-1072	EA	2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	67.68	10.30
23 05 29 00-1073	EA	2-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	71.20	10.57
23 05 29 00-1074	EA	3" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	74.30	11.25
23 05 29 00-1075	EA	4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	81.75	11.67
23 05 29 00-1076	EA	6" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	93.51	14.28
23 05 29 00-1077	EA	8" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	120.15	15.65
23 05 29 00-1078	EA	10" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	142.78	16.48
23 05 29 00-1079	EA	12" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	164.29	21.28
23 05 29 00-1080	EA	14" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	184.76	22.65
23 05 29 00-1081	EA	16" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	222.03	30.20
23 05 29 00-1082	EA	18" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	238.98	32.95
23 05 29 00-1083	EA	20" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	270.57	35.70
23 05 29 00-1084	EA	24" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	317.94	43.93
23 05 29 00-1085		3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
23 05 29 00-1086	EA	1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	24.60	8.92
23 05 29 00-1087	EA	3/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	29.74	10.84
23 05 29 00-1088	EA	1" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	30.78	10.84
23 05 29 00-1089	EA	1-1/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	31.40	10.98
23 05 29 00-1090	EA	1-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.21	11.12
23 05 29 00-1091	EA	2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	33.37	11.54
23 05 29 00-1092	EA	2-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	35.04	11.94
23 05 29 00-1093	EA	3" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.53	12.35
23 05 29 00-1094	EA	4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	39.98	13.05
23 05 29 00-1095	EA	6" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	45.67	14.83
23 05 29 00-1096	EA	8" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	58.00	16.48

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1097 EA 10" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	68.71	18.95
23 05 29 00-1098 EA 12" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	79.91	23.62
23 05 29 00-1099 EA 14" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	89.55	25.81
23 05 29 00-1100 EA 16" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	107.76	32.95
23 05 29 00-1101 EA 18" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	115.11	34.60
23 05 29 00-1102 EA 20" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	130.97	39.54
23 05 29 00-1103 EA 24" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	155.12	47.78
23 05 29 00-1104 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
23 05 29 00-1105 EA 1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	33.15	12.08
23 05 29 00-1106 EA 3/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	33.48	12.08
23 05 29 00-1107 EA 1" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	34.56	12.22
23 05 29 00-1108 EA 1-1/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	35.41	12.35
23 05 29 00-1109 EA 1-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	35.99	12.35
23 05 29 00-1110 EA 2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.04	13.18
23 05 29 00-1111 EA 2-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	39.40	13.32
23 05 29 00-1112 EA 3" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	41.22	13.87
23 05 29 00-1113 EA 4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	44.95	14.68
23 05 29 00-1114 EA 6" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	51.35	16.62
23 05 29 00-1115 EA 8" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	64.23	17.98
23 05 29 00-1116 EA 10" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	77.32	21.41
23 05 29 00-1117 EA 12" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	89.93	26.63
23 05 29 00-1118 EA 14" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	100.77	28.97
23 05 29 00-1119 EA 16" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	121.30	37.06
23 05 29 00-1120 EA 18" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	129.44	38.85
23 05 29 00-1121 EA 20" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	145.96	44.48
23 05 29 00-1122 EA 24" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	174.54	53.82
23 05 29 00-1123 EA 26" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	200.40	63.29
23 05 29 00-1124 EA 28" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	229.79	74.68
23 05 29 00-1125 EA 30" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	262.43	88.28
23 05 29 00-1126 EA 42" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	382.08	136.33
23 05 29 00-1127 EA 44" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	413.60	150.06
23 05 29 00-1128 EA 46" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	442.10	161.99
23 05 29 00-1129 Equipment Housekeeping Pads <small>(23 05 29)</small> See CSI section 03 31 13 00-0089 for Concrete Equipment Pads.		
23 05 29 00-1130 Molded Plastic Condenser Pad <small>(23 05 29 00-1129)</small>		
23 05 29 00-1131 EA 30" Round Molded Plastic Pad.....	146.17	18.40
23 05 29 00-1132 EA 30" Octagon Molded Plastic Pad.....	153.36	18.40
23 05 29 00-1133 EA 30" x 30" Molded Plastic Pad.....	146.17	18.40
23 05 29 00-1134 EA 36" x 36" Molded Plastic Pad.....	189.28	18.40
23 05 29 00-1135 EA 36" x 48" Molded Plastic Pad.....	269.93	18.40
23 05 29 00-1136 Inertia Base <small>(23 05 29 00-1129)</small> Note: Includes spring isolators.		
23 05 29 00-1137 EA Up To 12 SF Inertia Base, 8" Thick With Spring Base.....	1,953.55	
23 05 29 00-1138 EA >12 To 16 SF Inertia Base, 8" Thick With Spring Base.....	2,358.08	
23 05 29 00-1139 EA >16 To 20 SF Inertia Base, 8" Thick With Spring Base.....	2,700.83	
23 05 29 00-1140 EA >20 To 24 SF Inertia Base, 8" Thick With Spring Base.....	3,084.77	
23 05 29 00-1141 Hanger Assemblies <small>(23 05 29)</small> Note: Includes hanger, rod, nuts, washers, clamps, upper attachment, etc. Not for use where detail is available.		
23 05 29 00-1142 EA 1/2" Standard Duty Clevis Pipe Hanger Assembly.....	59.69	22.88
Note: Includes hanger, rod, nuts, washers and clamp.		
<i>For Work In Restricted Working Space, Add</i>	14.72	
23 05 29 00-1143 EA 3/4" Standard Duty Clevis Pipe Hanger Assembly.....	62.41	24.24
Note: Includes hanger, rod, nuts, washers and clamp.		
<i>For Work In Restricted Working Space, Add</i>	15.54	
23 05 29 00-1144 EA 1" Standard Duty Clevis Pipe Hanger Assembly.....	64.49	25.63
Note: Includes hanger, rod, nuts, washers and clamp.		
<i>For Work In Restricted Working Space, Add</i>	16.15	
23 05 29 00-1145 EA 1-1/4" Standard Duty Clevis Pipe Hanger Assembly.....	65.54	25.67
Note: Includes hanger, rod, nuts, washers and clamp.		
<i>For Work In Restricted Working Space, Add</i>	16.39	
23 05 29 00-1146 EA 1-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	65.75	25.67
Note: Includes hanger, rod, nuts, washers and clamp.		
<i>For Work In Restricted Working Space, Add</i>	16.39	
23 05 29 00-1147 EA 2" Standard Duty Clevis Pipe Hanger Assembly.....	66.97	25.89
Note: Includes hanger, rod, nuts, washers and clamp.		
<i>For Work In Restricted Working Space, Add</i>	16.63	
23 05 29 00-1148 EA 2-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	71.08	25.51
Note: Includes hanger, rod, nuts, washers and clamp.		
<i>For Work In Restricted Working Space, Add</i>	15.59	
23 05 29 00-1149 EA 3" Standard Duty Clevis Pipe Hanger Assembly.....	72.94	26.24
Note: Includes hanger, rod, nuts, washers and clamp.		
<i>For Work In Restricted Working Space, Add</i>	15.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1150 EA 4" Standard Duty Clevis Pipe Hanger Assembly Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	86.78 <i>17.48</i>	29.63
23 05 29 00-1151 EA 6" Standard Duty Clevis Pipe Hanger Assembly Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	126.32 <i>22.97</i>	38.28
23 05 29 00-1152 EA 8" Standard Duty Clevis Pipe Hanger Assembly Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	145.47 <i>26.64</i>	44.41
23 05 29 00-1153 EA 10" Standard Duty Clevis Pipe Hanger Assembly Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	197.60 <i>33.43</i>	56.41
23 05 29 00-1154 EA 12" Standard Duty Clevis Pipe Hanger Assembly Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	215.88 <i>36.49</i>	60.71
23 05 29 00-1155 Steel Shapes For Hanger Devices (23 05 29)		
23 05 29 00-1156 Angle Iron For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1157 LF 1/2" x 1/2" x 1/8" Angle Iron For Hanger Devices	3.46	2.14
23 05 29 00-1158 LF 3/4" x 3/4" x 1/8" Angle Iron For Hanger Devices	4.51	2.67
23 05 29 00-1159 LF 1" x 1" x 1/8" Angle Iron For Hanger Devices	5.55	3.20
23 05 29 00-1160 LF 1-1/4" x 1-1/4" x 3/16" Angle Iron For Hanger Devices	7.69	3.98
23 05 29 00-1161 LF 1-1/2" x 1-1/2" x 3/16" Angle Iron For Hanger Devices	8.59	4.27
23 05 29 00-1162 LF 2" x 2" x 1/4" Angle Iron For Hanger Devices	11.53	4.80
23 05 29 00-1163 LF 2-1/2" x 2-1/2" x 1/4" Angle Iron For Hanger Devices	14.36	5.85
23 05 29 00-1164 LF 3" x 2" x 3/8" Angle Iron For Hanger Devices	18.62	6.86
23 05 29 00-1165 LF 3" x 3" x 3/8" Angle Iron For Hanger Devices	22.24	8.01
23 05 29 00-1166 Channels For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1167 LF C2 x 1.78, 2" Wide Channels For Hanger Devices	9.29	4.86
23 05 29 00-1168 LF C3 x 4.1, 3" Wide Channels For Hanger Devices	15.91	6.98
23 05 29 00-1169 LF C4 x 5.4, 4" Wide Channels For Hanger Devices	19.86	8.37
23 05 29 00-1170 LF C5 x 6.7 - 5" Wide Channels For Hanger Devices	23.81	9.76
23 05 29 00-1171 LF C6 x 8.2 - 6" Wide Channels For Hanger Devices	28.83	11.73
23 05 29 00-1172 LF C7 x 9.8 - 7" Wide Channels For Hanger Devices	34.38	13.95
23 05 29 00-1173 LF C8 x 11.5 - 8" Wide Channels For Hanger Devices	38.98	15.36
23 05 29 00-1174 Structural Bar Tees For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1175 LF 3/4" x 3/4" x 1/8" Structural Bar Tee For Hanger Devices.....	10.34	6.82
23 05 29 00-1176 LF 1" x 1" x 1/8" Structural Bar Tee For Hanger Devices.....	12.44	8.07
23 05 29 00-1177 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee For Hanger Devices	17.79	9.31
23 05 29 00-1178 LF 2" x 2" x 1/4" Structural Bar Tee For Hanger Devices.....	22.92	12.40
23 05 29 00-1179 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee For Hanger Devices	31.41	14.89
23 05 29 00-1180 LF 3" x 3" x 3/8" Structural Bar Tee For Hanger Devices.....	39.41	19.23
23 05 29 00-1181 Structural Zees For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1182 LF 1-1/4" x 1-3/4" x 1-3/4" Structural Zee For Hanger Devices.....	17.81	9.31
23 05 29 00-1183 LF 2-11/16" x 3" x 2-11/16" Structural Zee For Hanger Devices.....	21.42	9.31
23 05 29 00-1184 LF 3-1/16" x 4" x 3-1/16" Structural Zee For Hanger Devices.....	31.37	9.31
23 05 29 00-1185 LF 3-1/4" x 5" x 3-1/4" Structural Zee For Hanger Devices.....	39.66	9.31
23 05 29 00-1186 LF 3-1/2" x 6" x 3-1/2" Structural Zee For Hanger Devices.....	48.33	9.31
23 05 29 00-1187 Junior I-beams For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1188 LF 3" I-beam (Junior) For Hanger Devices	22.17	13.65
23 05 29 00-1189 LF 4" I-beam (Junior) For Hanger Devices	25.49	14.89
23 05 29 00-1190 LF 5" I-beam (Junior) For Hanger Devices	29.44	16.13
23 05 29 00-1191 LF 6" I-beam (Junior) For Hanger Devices	32.18	17.99
23 05 29 00-1192 LF 7" I-beam (Junior) For Hanger Devices	38.27	19.23
23 05 29 00-1193 LF 8" I-beam (Junior) For Hanger Devices	41.43	20.47
23 05 48 Vibration and Seismic Controls for HVAC (23 05)		
23 05 48 13 Vibration Controls for HVAC (23 05 48)		
23 05 48 13-0001 Unhoused Stable Steel Spring Isolators (23 05 48 13) Note: Includes leveling adjustment, cast top, base plate and pad. For use with floor mounted equipment only.		
23 05 48 13-0002 EA 60 LB Unhoused Steel Spring Isolator.....	122.78	41.20
23 05 48 13-0003 EA 115 LB Unhoused Steel Spring Isolator.....	129.34	41.20
23 05 48 13-0004 EA 1,130 LB Unhoused Steel Spring Isolator.....	151.12	41.20
23 05 48 13-0005 Housed Stable Steel Spring Isolators (23 05 48 13) Note: Includes leveling adjustment, top plate, base plate and pad. For use with floor mounted equipment only. Mason Industries, Inc.		
23 05 48 13-0006 EA To 770 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection.....	651.99	41.20

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0007 EA To 1,040 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	739.72	41.20
23 05 48 13-0008 EA To 1,600 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	783.58	41.20
23 05 48 13-0009 EA To 2,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	959.04	41.20
23 05 48 13-0010 EA To 3,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	1,002.90	41.20
23 05 48 13-0011 EA To 730 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	728.75	41.20
23 05 48 13-0012 EA To 930 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	805.52	41.20
23 05 48 13-0013 EA To 1,440 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	860.35	41.20
23 05 48 13-0014 EA To 1,860 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	1,112.56	41.20
23 05 48 13-0015 EA To 2,880 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	1,211.26	41.20
23 05 48 13-0016 EA To 3,720 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	1,441.54	41.20
23 05 48 13-0017 Vibration Isolators (23 05 48 13)		
23 05 48 13-0018 Spring And Rubber Hanger For 1" Deflection (23 05 48 13-0017)		
23 05 48 13-0019 EA 50 To 500 LB Rated Spring And Rubber Hanger For Vibration Isolation With 3/4" Max Rod Size	149.37	26.50
23 05 48 13-0020 EA 600 To 1,000 LB Rated Spring And Rubber Hanger For Vibration Isolation With 7/8" Max Rod Size	301.93	29.44
23 05 48 13-0021 Rubber-In-Shear Isolator Hanger (23 05 48 13-0017)		
23 05 48 13-0022 EA 45-340 LB Rubber In Shear Hanger 0.38" Deflection With <1/2" Rod Size	86.47	22.09
23 05 48 13-0023 EA 130-700 LB Rubber In Shear Hanger 0.43" Deflection With <3/4" Rod Size	111.07	26.50
23 05 48 13-0024 Spring Hanger For 1" Deflection (23 05 48 13-0017)		
23 05 48 13-0025 EA 50 To 1,000 LB Rubber In Shear Hanger For 1" Deflection With <3/4" Rod Size	98.74	26.50
23 05 48 13-0026 Rubber-In-Shear Vibration Isolator (23 05 48 13-0017)		
23 05 48 13-0027 EA 45 To 340 LB Rubber In Shear Vibration Isolation With 0.38" Deflection	182.01	50.06
23 05 48 13-0028 EA 130 To 700 LB Rubber In Shear Vibration Isolation With 0.43" Deflection	240.12	50.06
23 05 48 13-0029 EA 550 To 1,920 LB Rubber In Shear Vibration Isolation With 0.48" Deflection	439.58	50.06
23 05 48 13-0030 Two-Piece Spring Type Vibration Isolator (23 05 48 13-0017)		
Note: For equipment support aluminum construction 1/2" adjusting and leveling bolt 1" deflection.		
23 05 48 13-0031 EA 50 To 1,000 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator	157.51	50.06
23 05 48 13-0032 EA >1,000 To 1,600 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator	161.84	50.06
23 05 48 13-0033 Open Double Spring Type Vibration Isolator (23 05 48 13-0017)		
Note: For equipment support 1" deflection neoprene pad and 5/8" stud bolt.		
23 05 48 13-0034 EA 150 To 450 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	115.97	25.02
23 05 48 13-0035 EA 500 To 1,000 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	115.97	25.02
23 05 48 13-0036 EA 1,100 To 1,600 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	130.41	25.02
23 05 48 13-0037 EA 1,700 To 2,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	130.41	25.02
23 05 48 13-0038 EA 2,500 To 3,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	195.71	25.02
23 05 48 13-0039 Isolation Pads (23 05 48 13-0017)		
23 05 48 13-0040 Laminated Neoprene And Cork Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0041 EA 2" x 2", 1" Thick Laminated Neoprene And Cork Isolation Pad	8.66	3.68
23 05 48 13-0042 EA 3" x 3", 1" Thick Laminated Neoprene And Cork Isolation Pad	10.78	3.83
23 05 48 13-0043 EA 4" x 4", 1" Thick Laminated Neoprene And Cork Isolation Pad	13.23	3.97
23 05 48 13-0044 EA 12" x 12", 1" Thick Laminated Neoprene And Cork Isolation Pad	48.50	4.57
23 05 48 13-0045 EA 18" x 18", 1" Thick Laminated Neoprene And Cork Isolation Pad	91.54	5.15
23 05 48 13-0046 Neoprene And Steel Plate Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0047 EA 6" x 4", 5/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad	95.10	3.68
23 05 48 13-0048 EA 6" x 4", 7/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad	104.78	3.68
23 05 48 13-0049 Neoprene Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0050 EA 2" x 2", 3/8" Thick Ribbed Neoprene Isolation Pad	8.16	3.68
23 05 48 13-0051 EA 3" x 3", 3/8" Thick Ribbed Neoprene Isolation Pad	9.17	3.68
23 05 48 13-0052 EA 4" x 4", 3/8" Thick Ribbed Neoprene Isolation Pad	10.77	3.68
23 05 48 13-0053 EA 12" x 12", 3/8" Thick Ribbed Neoprene Isolation Pad	47.74	4.42
23 05 48 13-0054 EA 18" x 18", 3/8" Thick Ribbed Neoprene Isolation Pad	86.14	5.15
23 05 48 13-0055 Threaded Flexible Bronze Hose Connectors (23 05 48 13)		
Note: Includes hex threaded nipple ends.		
23 05 48 13-0056 EA 3/8" Diameter x 9" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	84.79	23.55
23 05 48 13-0057 EA 1/2" Diameter x 10" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	101.30	32.38
23 05 48 13-0058 EA 3/4" Diameter x 11" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	124.10	39.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0059 EA 1" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	144.84	47.11
23 05 48 13-0060 EA 1-1/4" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	166.53	61.82
23 05 48 13-0061 EA 1-1/2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	187.94	65.80
23 05 48 13-0062 EA 2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	249.84	78.02
23 05 48 13-0063 EA 2-1/2" Diameter x 16" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	340.78	121.59
23 05 48 13-0064 Weld End Flexible Hose Connectors <small>(23 05 48 13)</small>		
23 05 48 13-0065 EA 1/2" Diameter x 10" Flexible Hose Connection, Weld Ends	291.63	84.50
23 05 48 13-0066 EA 3/4" Diameter x 10" Flexible Hose Connection, Weld Ends	339.43	92.74
23 05 48 13-0067 EA 1" Diameter x 10" Flexible Hose Connection, Weld Ends	381.05	98.19
23 05 48 13-0068 EA 1-1/4" Diameter x 11" Flexible Hose Connection, Weld Ends	426.59	111.88
23 05 48 13-0069 EA 1-1/2" Diameter x 12" Flexible Hose Connection, Weld Ends	482.40	120.71
23 05 48 13-0070 EA 2" Diameter x 14" Flexible Hose Connection, Weld Ends	606.92	157.07
23 05 48 13-0071 EA 2-1/2" Diameter x 16" Flexible Hose Connection, Weld Ends	897.61	176.65
23 05 48 13-0072 EA 3" Diameter x 16" Flexible Hose Connection, Weld Ends	1,103.17	198.73
23 05 48 13-0073 EA 4" Diameter x 18" Flexible Hose Connection, Weld Ends	1,531.95	294.42
23 05 48 13-0074 Flanged Flexible Hose Connectors <small>(23 05 48 13)</small>		
23 05 48 13-0075 Flanged Flexible Molded Rubber Hose Connectors <small>(23 05 48 13-0074)</small>		
<small>Note: With helical wire reinforcement 150 PSI.</small>		
23 05 48 13-0076 EA 1-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	257.94	110.41
23 05 48 13-0077 EA 2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	280.05	122.62
23 05 48 13-0078 EA 2-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	469.76	244.96
23 05 48 13-0079 EA 3" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	659.35	364.34
23 05 48 13-0080 EA 4" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	856.65	470.33
23 05 48 13-0081 EA 6" Diameter x 18" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,054.97	489.08
23 05 48 13-0082 EA 8" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,271.41	558.59
23 05 48 13-0083 EA 10" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,628.23	664.75
23 05 48 13-0084 EA 12" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	4,167.29	831.42
23 05 48 13-0085 Flanged Flexible Corrugated Stainless Steel Hose Connectors <small>(23 05 48 13-0074)</small>		
<small>Note: With braided metal wire.</small>		
23 05 48 13-0086 EA 1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	205.31	100.39
23 05 48 13-0087 EA 1" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	211.98	138.08
23 05 48 13-0088 EA 1-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	382.11	184.01
23 05 48 13-0089 EA 2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	507.46	276.01
23 05 48 13-0090 EA 2-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	547.90	303.69
23 05 48 13-0091 EA 3" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	641.15	367.73
23 05 48 13-0092 EA 4" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	821.03	470.77
23 05 48 13-0093 EA 6" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,116.77	585.71
23 05 48 13-0094 EA 8" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,763.89	782.52
23 05 48 13-0095 EA 10" Diameter x 13" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	2,071.02	904.85
23 05 48 13-0096 EA 12" Diameter x 14" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	2,607.16	978.15
23 05 48 13-0097 Flanged Flexible Molded Teflon Hose Connectors <small>(23 05 48 13-0074)</small>		
<small>Note: 150 PSI.</small>		
23 05 48 13-0098 EA 2-1/2" Diameter x 3-3/16" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,037.17	213.45
23 05 48 13-0099 EA 3" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,166.31	250.26
23 05 48 13-0100 EA 4" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,779.47	420.59
23 05 48 13-0101 EA 6" Diameter x 4" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	2,165.22	489.08
23 05 48 13-0102 EA 8" Diameter x 6" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	2,820.40	599.93
23 05 48 13-0103 Flexible Hose Connectors Braided Metal Hose Type <small>(23 05 48 13)</small>		
23 05 48 13-0104 Braided Metal Hose Type Flexible Bronze Hose Connectors <small>(23 05 48 13-0103)</small>		
<small>Note: MPT connection.</small>		
23 05 48 13-0105 EA 1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	40.05	2.95
23 05 48 13-0106 EA 1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	47.59	2.95
23 05 48 13-0107 EA 1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	53.28	3.83
23 05 48 13-0108 EA 1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	64.38	3.83
23 05 48 13-0109 EA 3/4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	53.44	3.53
23 05 48 13-0110 EA 3/4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	64.20	3.53
23 05 48 13-0111 EA 3/4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	73.79	4.56
23 05 48 13-0112 EA 3/4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	90.54	4.56
23 05 48 13-0113 EA 1" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	72.61	4.12
23 05 48 13-0114 EA 1" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	79.21	4.12
23 05 48 13-0115 EA 1" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	94.42	5.45
23 05 48 13-0116 EA 1" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	118.92	5.45

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 05 48 13-0117	EA	1" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	143.24	5.45
23 05 48 13-0118	EA	1" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	167.63	5.45
23 05 48 13-0119	EA	1-1/4" Or 1-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	103.12	5.28
23 05 48 13-0120	EA	1-1/4" Or 1-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	113.40	5.28
23 05 48 13-0121	EA	1-1/4" Or 1-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	144.74	5.28
23 05 48 13-0122	EA	1-1/4" Or 1-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	201.09	7.04
23 05 48 13-0123	EA	1-1/4" Or 1-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	232.67	7.04
23 05 48 13-0124	EA	1-1/4" Or 1-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	274.69	7.04
23 05 48 13-0125	EA	2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	140.75	6.37
23 05 48 13-0126	EA	2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	162.24	6.37
23 05 48 13-0127	EA	2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	203.87	6.37
23 05 48 13-0128	EA	2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	271.88	8.54
23 05 48 13-0129	EA	2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	335.32	8.54
23 05 48 13-0130	EA	2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	398.70	8.54
23 05 48 13-0131	EA	2-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	194.80	8.00
23 05 48 13-0132	EA	2-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	221.27	7.58
23 05 48 13-0133	EA	2-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	248.01	7.58
23 05 48 13-0134	EA	2-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	306.22	10.16
23 05 48 13-0135	EA	2-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	359.98	10.16
23 05 48 13-0136	EA	2-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	412.07	10.16
23 05 48 13-0137	EA	3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	306.24	10.16
23 05 48 13-0138	EA	3" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	341.96	10.16
23 05 48 13-0139	EA	3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	735.79	10.16
23 05 48 13-0140	EA	3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	887.00	13.55
23 05 48 13-0141	EA	3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	528.46	13.55
23 05 48 13-0142	EA	3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	598.73	13.55
23 05 48 13-0143	EA	4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	554.96	10.94
23 05 48 13-0144	EA	4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	596.69	10.94
23 05 48 13-0145	EA	4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	638.42	10.94
23 05 48 13-0146	EA	4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	730.63	14.58
23 05 48 13-0147	EA	4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	813.77	14.58
23 05 48 13-0148	EA	4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	898.70	14.58

23 05 48 13-0149 Braided Stainless Steel Flexible Hose Connectors (23 05 48 13-0103)

Note: Over braided carbon steel connection.

23 05 48 13-0150	EA	2" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	167.10	6.44
23 05 48 13-0151	EA	2" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	201.24	6.44
23 05 48 13-0152	EA	2" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	234.74	6.44
23 05 48 13-0153	EA	2" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	307.31	8.64
23 05 48 13-0154	EA	2" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	375.22	8.64
23 05 48 13-0155	EA	2" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	443.04	8.64
23 05 48 13-0156	EA	2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	189.58	7.58
23 05 48 13-0157	EA	2-1/2" Or 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	225.27	7.58
23 05 48 13-0158	EA	2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	261.11	7.58
23 05 48 13-0159	EA	2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	338.41	10.16
23 05 48 13-0160	EA	2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	409.81	10.16
23 05 48 13-0161	EA	2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	480.22	10.16
23 05 48 13-0162	EA	4" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	202.20	10.16
23 05 48 13-0163	EA	4" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	243.08	10.43
23 05 48 13-0164	LF	4" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	284.54	10.16
23 05 48 13-0165	EA	4" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	376.88	13.55
23 05 48 13-0166	EA	4" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	459.35	13.55
23 05 48 13-0167	EA	4" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	544.17	13.55
23 05 48 13-0168	EA	6" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	407.34	19.74
23 05 48 13-0169	EA	6" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	596.39	19.87
23 05 48 13-0170	EA	6" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	799.61	26.18
23 05 48 13-0171	EA	6" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	988.74	26.18
23 05 48 13-0172	EA	6" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,177.81	26.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0173 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	697.07	22.14
23 05 48 13-0174 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	840.10	22.14
23 05 48 13-0175 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,138.51	28.79
23 05 48 13-0176 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,422.26	28.79
23 05 48 13-0177 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,705.92	28.79
23 05 48 13-0178 EA 10" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	748.12	27.68
23 05 48 13-0179 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,105.71	27.68
23 05 48 13-0180 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,480.59	36.04
23 05 48 13-0181 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,839.43	36.04
23 05 48 13-0182 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,196.76	36.04
23 05 48 13-0183 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,476.65	33.46
23 05 48 13-0184 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,922.91	33.46
23 05 48 13-0185 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,406.75	45.02
23 05 48 13-0186 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,856.94	45.02
23 05 48 13-0187 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	3,309.22	45.02

23 05 48 13-0188 Braided Metal Hose Type Flexible Bronze Hose Connectors (23 05 48 13-0103)

Note: Flanged end connection (carbon steel ends).

23 05 48 13-0189 EA 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	328.97	6.37
23 05 48 13-0190 EA 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	676.56	180.60
23 05 48 13-0191 EA 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	812.81	180.60
23 05 48 13-0192 EA 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	949.07	180.60
23 05 48 13-0193 EA 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,085.38	180.60
23 05 48 13-0194 EA 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	645.01	230.33
23 05 48 13-0195 EA 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	788.59	230.33
23 05 48 13-0196 EA 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	932.23	230.33
23 05 48 13-0197 EA 2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,075.92	230.33
23 05 48 13-0198 EA 2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,217.09	230.33
23 05 48 13-0199 EA 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	923.35	386.13
23 05 48 13-0200 EA 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,090.95	387.11
23 05 48 13-0201 EA 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,261.27	386.13
23 05 48 13-0202 EA 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,451.70	386.13
23 05 48 13-0203 EA 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,597.21	386.13
23 05 48 13-0204 EA 6" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,391.25	493.48
23 05 48 13-0205 EA 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,770.98	493.48
23 05 48 13-0206 EA 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,150.93	495.25
23 05 48 13-0207 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,530.72	493.48
23 05 48 13-0208 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,910.45	493.48
23 05 48 13-0209 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,169.51	565.82
23 05 48 13-0210 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,456.78	565.82
23 05 48 13-0211 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,026.35	565.82
23 05 48 13-0212 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,596.14	565.82
23 05 48 13-0213 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	4,165.66	565.82

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0214 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,474.92	688.82
23 05 48 13-0215 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	4,190.64	688.82
23 05 48 13-0216 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	4,911.18	688.82
23 05 48 13-0217 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	5,630.16	688.82
23 05 48 13-0218 EA 10" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	6,211.23	688.82
23 05 48 13-0219 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	4,684.78	836.42
23 05 48 13-0220 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	5,593.02	836.42
23 05 48 13-0221 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	6,501.20	836.42
23 05 48 13-0222 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	7,409.38	836.42
23 05 48 13-0223 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	8,317.61	836.42

23 05 53 Identification for HVAC Piping and Equipment (23 05)**23 05 53 00-0001 Systems Identification (23 05 53)****23 05 53 00-0002 Pipe Marker Snap-On Type Plastic (23 05 53 00-0001)**

Note: Outside diameters of insulation where necessary.

23 05 53 00-0003 EA 1/2" Outside Diameter Snap-On Plastic Marker	21.95	
23 05 53 00-0004 EA 3/4" Outside Diameter Snap-On Plastic Marker	22.31	
23 05 53 00-0005 EA 1" Outside Diameter Snap-On Plastic Marker	22.51	
23 05 53 00-0006 EA 1-1/4" Outside Diameter Snap-On Plastic Marker	22.86	
23 05 53 00-0007 EA 1-1/2" Outside Diameter Snap-On Plastic Marker	26.11	
23 05 53 00-0008 EA 2" Outside Diameter Snap-On Plastic Marker	26.78	
23 05 53 00-0009 EA 2-1/2" Outside Diameter Snap-On Plastic Marker	40.72	
23 05 53 00-0010 EA 3" Outside Diameter Snap-On Plastic Marker	41.25	
23 05 53 00-0011 EA 3-1/2" Outside Diameter Snap-On Plastic Marker	41.82	
23 05 53 00-0012 EA 4" Outside Diameter Snap-On Plastic Marker	42.12	
23 05 53 00-0013 EA 4-1/2" Outside Diameter Snap-On Plastic Marker	42.43	
23 05 53 00-0014 EA 5" Outside Diameter Snap-On Plastic Marker	42.75	
23 05 53 00-0015 EA 6" Outside Diameter Snap-On Plastic Marker	44.69	
23 05 53 00-0016 EA 7" Outside Diameter Snap-On Plastic Marker	45.04	
23 05 53 00-0017 EA 8" Outside Diameter Snap-On Plastic Marker	54.62	
23 05 53 00-0018 EA 10" Outside Diameter Snap-On Plastic Marker	56.76	
23 05 53 00-0019 EA 12" Outside Diameter Snap-On Plastic Marker	65.61	
23 05 53 00-0020 EA 14" Outside Diameter Snap-On Plastic Marker	75.16	

23 05 53 00-0021 Pipe Markers Pressure-Sensitive (23 05 53 00-0001)

Note: Outside diameter includes insulation where necessary.

23 05 53 00-0022 EA 1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	15.64	
23 05 53 00-0023 EA 3/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	16.37	
23 05 53 00-0024 EA 1" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	17.85	
23 05 53 00-0025 EA 1-1/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	18.14	
23 05 53 00-0026 EA 1-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	19.16	
23 05 53 00-0027 EA 2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	19.61	
23 05 53 00-0028 EA 2-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	21.65	
23 05 53 00-0029 EA 3" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	22.23	
23 05 53 00-0030 EA 3-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	22.67	
23 05 53 00-0031 EA 4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	23.13	
23 05 53 00-0032 EA 4-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	24.04	
23 05 53 00-0033 EA 5" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	25.03	
23 05 53 00-0034 EA 6" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	25.90	
23 05 53 00-0035 EA 7" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	26.76	
23 05 53 00-0036 EA 8" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	29.07	
23 05 53 00-0037 EA 10" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	30.69	
23 05 53 00-0038 EA 12" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	35.54	

23 05 53 00-0039 Valve Identification Tag (23 05 53 00-0001)

Note: Includes beaded chain and/or "S" hook.

23 05 53 00-0040 EA 2" Diameter Identification Tag, Brass	14.44	
23 05 53 00-0041 EA 1-1/2" Diameter Identification Tag, Plastic	13.71	
23 05 53 00-0042 EA 1-1/2" Diameter Identification Tag, Brass	13.49	

23 05 93 Testing, Adjusting, and Balancing for HVAC (23 05)

Note: Includes all necessary testing, startup, and checkout. Use these tasks for testing, startup, and checkout of existing systems or for third party testing and report when required.

23 05 93 00-0001 Heating And Ventilating Equipment (23 05 93)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0002 EA Balancing Centrifugal Fans.....	584.43	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-292.22	
23 05 93 00-0003 EA Balancing Heating And Ventilating Units	730.24	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-365.12	
23 05 93 00-0004 EA Balancing In Line Fan	657.47	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-328.74	
23 05 93 00-0005 EA Balancing Propeller And Wall Fan	146.10	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-73.05	
23 05 93 00-0006 EA Balancing Roof Exhaust Fan	438.29	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-219.15	
23 05 93 00-0007 EA Balancing Wall Fan.....	109.55	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-54.78	
23 05 93 00-0008 EA Balancing Fan Section Exhaust.....	583.49	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-291.75	
23 05 93 00-0009 Air Conditioning Equipment <small>(23 05 93)</small>		
23 05 93 00-0010 EA Balancing Constant Volume Air Handling Unit.....	1,084.36	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-542.18	
23 05 93 00-0011 EA Balancing Package A/C Unit.....	406.64	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-203.32	
23 05 93 00-0012 EA Balancing Rooftop Heat And Cool Unit.....	542.19	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-271.10	
23 05 93 00-0013 EA Balancing Variable Volume Air Handling Unit.....	1,897.64	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-948.82	
23 05 93 00-0014 Registers, Diffusers, Terminal Air Units And Dampers <small>(23 05 93)</small>		
23 05 93 00-0015 EA Balancing HVAC Duct System, Ceiling Height To 12' Supply, Return, Exhaust, Register And Diffuser	109.58	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-54.79	
23 05 93 00-0016 EA Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser	182.63	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-91.32	
23 05 93 00-0017 EA Balancing HVAC Duct System, Floor Height Supply, Return, Exhaust, Register And Diffuser	94.96	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-47.48	
23 05 93 00-0018 EA Balance Variable Air Volume Box	102.89	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-51.45	
23 05 93 00-0019 EA Balance Constant Volume Box.....	102.89	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-51.45	
23 05 93 00-0020 EA Balance Fan Powered Box	116.88	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-58.44	
23 05 93 00-0021 EA Balance Lab Fume Hood	474.86	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-237.43	
23 05 93 00-0022 EA Balance General Hood	365.26	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-182.63	
23 05 93 00-0023 EA Balance Induction Unit.....	219.17	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-109.59	
23 05 93 00-0024 EA Balance Moduline - Master	87.64	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-43.82	
23 05 93 00-0025 EA Balance Moduline - Slave	43.83	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-21.92	
23 05 93 00-0026 EA Balance Dampers	40.70	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-20.35	
23 05 93 00-0027 EA Balance Regenerators.....	583.49	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-291.75	
23 05 93 00-0028 Water Balancing Of Components <small>(23 05 93)</small>		
23 05 93 00-0029 EA Water Balance, Air Cool Condenser	745.57	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-372.79	
23 05 93 00-0030 EA Water Balance, Cabinet Heater.....	94.89	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-47.45	
23 05 93 00-0031 EA Water Balance, Chiller, Air Cooled	813.21	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-406.61	
23 05 93 00-0032 EA Water Balance, Chiller, Water Cooled	1,084.36	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-542.18	
23 05 93 00-0033 EA Water Balance, Cooling Tower	542.19	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-271.10	
23 05 93 00-0034 EA Water Balance, Fan Coil And Vent	135.63	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-67.82	
23 05 93 00-0035 EA Water Balance, Fin Tube And Radiant Panel	135.55	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-67.78	
23 05 93 00-0036 EA Water Balance, Main And Duct Re-Heat Coil	149.10	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-74.55	
23 05 93 00-0037 EA Water Balance, Pumps	406.66	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-203.33	
23 05 93 00-0038 EA Water Balance, Unit Heater	94.88	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-47.44	
23 05 93 00-0039 EA Water Balancing, Converter.....	406.80	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-203.40	
23 05 93 00-0040 EA Water Balancing, Cocks And Valves	67.76	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-33.88	
23 05 93 00-0041 EA Water Balance, Convvector	81.32	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-40.66	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 93 Testing, Adjusting, and Balancing for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0042 EA Water Balancing, Backflow Preventer Or Reduced Pressure Zone Valves .....101.66 <i>For Testing Of Unit Without Balancing, Deduct</i> -50.83		
23 05 93 00-0043 EA Water Balance, Boiler, Up To 500 MBH.....881.05 <i>For Testing Of Unit Without Balancing, Deduct</i> -440.53		
23 05 93 00-0044 EA >500 To 1,000 MBH, Water Balance, Boiler .....1,626.55 <i>For Testing Of Unit Without Balancing, Deduct</i> -813.28		
23 05 93 00-0045 EA >1,000 MBH, Water Balance, Boiler .....2,982.01 <i>For Testing Of Unit Without Balancing, Deduct</i> -1,491.01		
23 05 93 00-0046 Non Destructive Testing (23 05 93)		
23 05 93 00-0047 X-Ray Welds, Non-Destructive Testing (23 05 93 00-0046)		
23 05 93 00-0048 Minimum Charge For X-Ray Welds (23 05 93 00-0047)		
23 05 93 00-0049 EA X-Ray Welds Minimum Set-Up Charge.....976.48 Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
23 05 93 00-0050 Piping, X-Ray Welds, Non Destructive Testing (23 05 93 00-0047)		
23 05 93 00-0051 EA Up To 3/4" Piping, X-Ray Welds, Non Destructive Testing .....111.45		
23 05 93 00-0052 EA 1" Piping, X-Ray Welds, Non Destructive Testing.....126.86		
23 05 93 00-0053 EA 1-1/4" - 1-1/2" Piping, X-Ray Welds, Non Destructive Testing .....142.28		
23 05 93 00-0054 EA 2" Piping, X-Ray Welds, Non Destructive Testing.....150.35		
23 05 93 00-0055 EA 3" Piping, X-Ray Welds, Non Destructive Testing.....158.41		
23 05 93 00-0056 EA 4" Piping, X-Ray Welds, Non Destructive Testing.....167.17		
23 05 93 00-0057 EA 6" Piping, X-Ray Welds, Non Destructive Testing.....183.28		
23 05 93 00-0058 EA 8" Piping, X-Ray Welds, Non Destructive Testing.....199.41		
23 05 93 00-0059 EA 10" Piping, X-Ray Welds, Non Destructive Testing.....208.17		
23 05 93 00-0060 EA 12" Piping, X-Ray Welds, Non Destructive Testing.....216.94		
23 05 93 00-0061 Liquid Penetration Of Welds, Non Destructive Testing (23 05 93 00-0046)		
23 05 93 00-0062 Piping, Liquid Penetration Of Welds, Non Destructive Testing (23 05 93 00-0061)		
23 05 93 00-0063 EA Up To 3/4" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....131.74		
23 05 93 00-0064 EA 1" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....139.10		
23 05 93 00-0065 EA 1-1/4" - 1-1/2" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....146.46		
23 05 93 00-0066 EA 2" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....150.14		
23 05 93 00-0067 EA 3" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....155.67		
23 05 93 00-0068 EA 4" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....161.19		
23 05 93 00-0069 EA 6" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....172.23		
23 05 93 00-0070 EA 8" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....183.26		
23 05 93 00-0071 EA 10" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....194.31		
23 05 93 00-0072 EA 12" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....205.35		
23 05 93 00-0073 Hydrostatic Testing (23 05 93 00-0046) Note: Includes flushing and restoring of system.		
23 05 93 00-0074 Piping, Hydrostatic Testing (23 05 93 00-0073)		
23 05 93 00-0075 EA Up To 100', Up To 1-1/2" Piping, Hydrostatic Testing.....968.47		
23 05 93 00-0076 EA >100' To 250', Up To 1-1/2" Piping, Hydrostatic Testing.....1,383.52		
23 05 93 00-0077 EA >250' To 500', Up To 1-1/2" Piping, Hydrostatic Testing.....1,657.73		
23 05 93 00-0078 EA >500' To 1,000', Up To 1-1/2" Piping, Hydrostatic Testing.....2,208.11		
23 05 93 00-0079 EA >1,000' To 2,000', Up To 1-1/2" Piping, Hydrostatic Testing.....3,345.61		
23 05 93 00-0080 EA Up To 100', >1-1/2" To 4" Piping, Hydrostatic Testing.....1,287.68		
23 05 93 00-0081 EA >100' To 250', >1-1/2" To 4" Piping, Hydrostatic Testing.....1,840.08		
23 05 93 00-0082 EA >250' To 500', >1-1/2" To 4" Piping, Hydrostatic Testing.....2,190.58		
23 05 93 00-0083 EA >500' To 1,000', >1-1/2" To 4" Piping, Hydrostatic Testing.....2,870.51		
23 05 93 00-0084 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Hydrostatic Testing.....4,342.59		
23 05 93 00-0085 EA Up To 100', >4" To 10" Piping, Hydrostatic Testing .....1,678.16		
23 05 93 00-0086 EA >100' To 250', >4" To 10" Piping, Hydrostatic Testing .....2,392.12		
23 05 93 00-0087 EA >250' To 500', >4" To 10" Piping, Hydrostatic Testing .....2,523.62		
23 05 93 00-0088 EA >500' To 1,000', >4" To 10" Piping, Hydrostatic Testing .....3,306.14		
23 05 93 00-0089 EA >1,000' To 2,000', >4" To 10" Piping, Hydrostatic Testing .....5,001.57		
23 05 93 00-0090 EA Up To 100', >10" To 14" Piping, Hydrostatic Testing .....2,178.67		
23 05 93 00-0091 EA >100' To 250', >10" To 14" Piping, Hydrostatic Testing .....3,106.06		
23 05 93 00-0092 EA >250' To 500', >10" To 14" Piping, Hydrostatic Testing .....3,281.35		
23 05 93 00-0093 EA >500' To 1,000', >10" To 14" Piping, Hydrostatic Testing.....4,303.84		
23 05 93 00-0094 EA >1,000' To 2,000', >10" To 14" Piping, Hydrostatic Testing .....6,520.98		
23 05 93 00-0095 Pneumatic Testing (23 05 93 00-0046) Note: Includes soaping joints flushing and restoring of system. Can be used for gas or smoke test.		
23 05 93 00-0096 Piping, Pneumatic Testing (23 05 93 00-0095)		
23 05 93 00-0097 EA Up To 100', Up To 1-1/2" Piping, Pneumatic Testing.....1,101.48 Note: Includes soaping joints.		
23 05 93 00-0098 EA >100' To 250', Up To 1-1/2" Piping, Pneumatic Testing.....1,571.65 Note: Includes soaping joints.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0099 EA >250' To 500', Up To 1-1/2" Piping, Pneumatic Testing Note: Includes soaping joints.	1,697.51	
23 05 93 00-0100 EA >500' To 1,000', Up To 1-1/2" Piping, Pneumatic Testing Note: Includes soaping joints.	2,174.43	
23 05 93 00-0101 EA >1,000' To 2,000', Up To 1-1/2" Piping, Pneumatic Testing Note: Includes soaping joints.	3,401.41	
23 05 93 00-0102 EA Up To 100', >1-1/2" To 4" Piping, Pneumatic Testing Note: Includes soaping joints.	1,437.26	
23 05 93 00-0103 EA >100' To 250', >1-1/2" To 4" Piping, Pneumatic Testing Note: Includes soaping joints.	2,040.80	
23 05 93 00-0104 EA >250' To 500', >1-1/2" To 4" Piping, Pneumatic Testing Note: Includes soaping joints.	2,206.60	
23 05 93 00-0105 EA >500' To 1,000', >1-1/2" To 4" Piping, Pneumatic Testing Note: Includes soaping joints.	2,827.31	
23 05 93 00-0106 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Pneumatic Testing Note: Includes soaping joints.	4,421.15	
23 05 93 00-0107 EA Up To 100', >4" To 10" Piping, Pneumatic Testing Note: Includes soaping joints.	1,730.59	
23 05 93 00-0108 EA >100' To 250', >4" To 10" Piping, Pneumatic Testing Note: Includes soaping joints.	2,442.20	
23 05 93 00-0109 EA >250' To 500', >4" To 10" Piping, Pneumatic Testing Note: Includes soaping joints.	2,763.12	
23 05 93 00-0110 EA >500' To 1,000', >4" To 10" Piping, Pneumatic Testing Note: Includes soaping joints.	3,530.84	
23 05 93 00-0111 EA >1,000' To 2,000', >4" To 10" Piping, Pneumatic Testing Note: Includes soaping joints.	5,529.29	
23 05 93 00-0112 EA Up To 100', >10" To 14" Piping, Pneumatic Testing Note: Includes soaping joints.	2,253.39	
23 05 93 00-0113 EA >100' To 250', >10" To 14" Piping, Pneumatic Testing Note: Includes soaping joints.	3,175.09	
23 05 93 00-0114 EA >250' To 500', >10" To 14" Piping, Pneumatic Testing Note: Includes soaping joints.	3,593.20	
23 05 93 00-0115 EA >500' To 1,000', >10" To 14" Piping, Pneumatic Testing Note: Includes soaping joints.	4,591.07	
23 05 93 00-0116 EA >1,000' To 2,000', >10" To 14" Piping, Pneumatic Testing Note: Includes soaping joints.	7,199.78	
23 05 93 00-0117 EPA Testing Of Sludge <small>(23 05 93)</small>		
23 05 93 00-0118 EA Flashpoint And Lead Test For Lead	1,032.29	
23 05 93 00-0119 EA Air Test/Combustion Gas Level	107.22	
23 05 93 00-0120 EA Toxicity Test For Heavy Metals.....	1,583.42	
23 05 93 00-0121 EA Aboveground Tank Water Settlement Test Including Water	1,201.95	

23 07 HVAC Insulation (23)

23 07 13 Duct Insulation (23 07)

Note: Based on SF surface area of duct to receive insulation.

23 07 13 00-0001 FSK Fiber Glass Duct Wrap Insulation <small>(23 07 13)</small>		
Note: Foil-scrim kraft (FSK) facing lapped and joints sealed vapor tight.		
23 07 13 00-0002 Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation <small>(23 07 13 00-0001)</small>		
23 07 13 00-0003 SF 1" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation	4.46	2.75
<i>For Plain Blanket, With No Facing, Deduct</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 07 13 00-0004 SF 1-1/2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation	5.20	2.75
<i>For Plain Blanket, With No Facing, Deduct</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 07 13 00-0005 SF 2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation	5.89	4.11
<i>For Plain Blanket, With No Facing, Deduct</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 07 13 00-0006 SF 3" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation	6.96	4.81
<i>For Plain Blanket, With No Facing, Deduct</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 07 13 00-0007 SF 4" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation	8.13	5.22
<i>For Plain Blanket, With No Facing, Deduct</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 07 13 00-0008 Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation <small>(23 07 13 00-0001)</small>		
23 07 13 00-0009 SF 1" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation	5.49	4.11
<i>For Plain Blanket, With No Facing, Deduct</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 07 13 00-0010 SF 1-1/2" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation	6.39	4.81
<i>For Plain Blanket, With No Facing, Deduct</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 07 13 00-0011 SF 2" Thick, Type 100 (1.0 LB/CF) Fiber Glass FSK Duct Wrap Insulation	7.55	5.49
<i>For Plain Blanket, With No Facing, Deduct</i>		
<i>For Work In Restricted Working Space, Add</i>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 07 HVAC Insulation****23 07 13 Duct Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 13 00-0012 Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)		
23 07 13 00-0013 SF 1" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation	7.06	5.49
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.62	
<i>For Work In Restricted Working Space, Add</i>	1.65	
23 07 13 00-0014 SF 1-1/2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation	9.00	6.18
<i>For Plain Blanket, With No Facing, Deduct</i>	-1.08	
<i>For Work In Restricted Working Space, Add</i>	1.89	
23 07 13 00-0015 SF 2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation	10.50	6.86
<i>For Plain Blanket, With No Facing, Deduct</i>	-1.27	
<i>For Work In Restricted Working Space, Add</i>	2.20	
23 07 13 00-0016 3 LB/CF FSK Rigid Fiber Glass Board Insulation (23 07 13)		
Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fasteners.		
23 07 13 00-0017 SF 1" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation	12.74	7.17
<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	29.64	
<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	21.88	
<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	18.06	
<i>For Work In Restricted Working Space, Add</i>	3.66	
23 07 13 00-0018 SF 1-1/2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation	16.12	8.72
<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	36.50	
<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	27.24	
<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	22.41	
<i>For Work In Restricted Working Space, Add</i>	4.45	
23 07 13 00-0019 SF 2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation	19.93	10.52
<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	44.38	
<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	33.36	
<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	27.38	
<i>For Work In Restricted Working Space, Add</i>	5.37	
23 07 13 00-0020 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation (23 07 13)		
Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fastener.		
23 07 13 00-0021 SF 1" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation	14.23	7.89
<i>For Work In Restricted Working Space, Add</i>	4.02	
23 07 13 00-0022 SF 1-1/2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation	18.15	9.59
<i>For Work In Restricted Working Space, Add</i>	4.89	
23 07 13 00-0023 SF 2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation	22.90	11.58
<i>For Work In Restricted Working Space, Add</i>	5.91	
23 07 13 00-0024 Sheet Flexible Elastomeric Insulation (23 07 13)		
23 07 13 00-0025 SF 3/8" Thick, Sheet Flexible Elastomeric Insulation	9.73	3.71
23 07 13 00-0026 SF 1/2" Thick, Sheet Flexible Elastomeric Insulation	10.39	3.91
23 07 13 00-0027 SF 3/4" Thick, Sheet Flexible Elastomeric Insulation	13.34	4.11
23 07 13 00-0028 SF 1" Thick, Sheet Flexible Elastomeric Insulation	15.25	4.32
23 07 13 00-0029 SF 1-1/2" Thick, Sheet Flexible Elastomeric Insulation	20.76	4.74
23 07 13 00-0030 SF 2" Thick, Sheet Flexible Elastomeric Insulation	24.41	5.15
23 07 13 00-0031 Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation (23 07 13)		
Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0032 SF 1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	13.96	3.91
23 07 13 00-0033 SF 3/4" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	15.30	4.11
23 07 13 00-0034 SF 1" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	16.96	4.32
23 07 13 00-0035 SF 1-1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	25.90	4.74
23 07 13 00-0036 SF 2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	30.54	5.15
23 07 13 00-0037 Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation (23 07 13)		
Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0038 SF 1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	16.50	3.91
23 07 13 00-0039 SF 3/4" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	17.84	4.11
23 07 13 00-0040 SF 1" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	19.95	4.32
23 07 13 00-0041 SF 1-1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	28.85	4.74
23 07 16 HVAC Equipment Insulation (23 07)		
23 07 16 00-0001 Calcium Silicate Block Insulation (23 07 16)		
23 07 16 00-0002 SF 1" Thick, Calcium Silicate Block Insulation	20.14	8.61
<i>For Work In Restricted Working Space, Add</i>	5.17	
23 07 16 00-0003 SF 1-1/2" Thick, Calcium Silicate Block Insulation	23.76	9.69
<i>For Work In Restricted Working Space, Add</i>	5.81	
23 07 16 00-0004 SF 2" Thick, Calcium Silicate Block Insulation	28.27	11.17
<i>For Work In Restricted Working Space, Add</i>	6.73	
23 07 16 00-0005 SF 2-1/2" Thick, Calcium Silicate Block Insulation	33.55	13.12
<i>For Work In Restricted Working Space, Add</i>	7.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 16 00-0006 SF 3" Thick, Calcium Silicate Block Insulation <i>For Work In Restricted Working Space, Add</i>	41.05 9.68	16.15
23 07 19 HVAC Piping Insulation <small>(23 07)</small>		
See CSI section 22 07 19 00-0000 for pipe insulation.		
23 07 19 00-0001 Calcium Silicate Pipe Insulation <small>(23 07 19)</small>		
Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint. See CSI section 22 07 19 00-0594 for protective jacketing.		
23 07 19 00-0002 1" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0003 LF 1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	17.10 3.38	4.51
23 07 19 00-0004 LF 3/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	17.10 3.38	4.51
23 07 19 00-0005 LF 1" Diameter Pipe, 1" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	17.01 3.43	4.58
23 07 19 00-0006 LF 1-1/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	17.28 3.48	4.64
23 07 19 00-0007 LF 1-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	17.49 3.53	4.71
23 07 19 00-0008 LF 2" Diameter Pipe, 1" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	18.69 3.63	4.84
23 07 19 00-0009 LF 2-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	19.55 3.77	5.03
23 07 19 00-0010 LF 3" Diameter Pipe, 1" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	20.41 3.87	5.16
23 07 19 00-0011 LF 4" Diameter Pipe, 1" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	23.26 4.17	5.55
23 07 19 00-0012 LF 6" Diameter Pipe, 1" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.92 4.70	6.27
23 07 19 00-0013 1-1/2" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0014 LF 1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	17.90 3.53	4.70
23 07 19 00-0015 LF 3/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	18.00 3.53	4.70
23 07 19 00-0016 LF 1" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	19.27 3.74	4.98
23 07 19 00-0017 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	20.03 3.80	5.07
23 07 19 00-0018 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	20.81 3.87	5.17
23 07 19 00-0019 LF 2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	22.33 4.09	5.45
23 07 19 00-0020 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	23.37 4.16	5.54
23 07 19 00-0021 LF 3" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	24.25 4.30	5.73
23 07 19 00-0022 LF 4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	27.00 4.65	6.20
23 07 19 00-0023 LF 6" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	31.31 5.43	7.24
23 07 19 00-0024 LF 8" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	36.62 5.73	7.63
23 07 19 00-0025 LF 10" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	46.05 6.86	9.14
23 07 19 00-0026 LF 12" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	54.13 7.99	10.65
23 07 19 00-0027 LF 14" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	60.26 8.75	11.67
23 07 19 00-0028 LF 16" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	71.94 11.14	14.86
23 07 19 00-0029 LF 18" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	77.46 11.69	15.60
23 07 19 00-0030 2" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0031 LF 1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	22.63 3.87	5.16
23 07 19 00-0032 LF 3/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	23.16 3.87	5.16
23 07 19 00-0033 LF 1" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	23.88 3.92	5.23
23 07 19 00-0034 LF 1-1/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	24.81 3.97	5.29
23 07 19 00-0035 LF 1-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.47 4.02	5.36
23 07 19 00-0036 LF 2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	26.56 4.17	5.55

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 07 HVAC Insulation****23 07 19 HVAC Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0037 LF 2-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	29.62	5.75
<i>For Work In Restricted Working Space, Add</i>	4.31	
23 07 19 00-0038 LF 3" Diameter Pipe, 2" Thick Calcium Silicate Insulation	30.17	5.94
<i>For Work In Restricted Working Space, Add</i>	4.46	
23 07 19 00-0039 LF 4" Diameter Pipe, 2" Thick Calcium Silicate Insulation	33.38	6.28
<i>For Work In Restricted Working Space, Add</i>	4.71	
23 07 19 00-0040 LF 6" Diameter Pipe, 2" Thick Calcium Silicate Insulation	40.89	7.53
<i>For Work In Restricted Working Space, Add</i>	5.65	
23 07 19 00-0041 LF 8" Diameter Pipe, 2" Thick Calcium Silicate Insulation	46.15	7.95
<i>For Work In Restricted Working Space, Add</i>	5.96	
23 07 19 00-0042 LF 10" Diameter Pipe, 2" Thick Calcium Silicate Insulation	56.79	9.51
<i>For Work In Restricted Working Space, Add</i>	7.13	
23 07 19 00-0043 LF 12" Diameter Pipe, 2" Thick Calcium Silicate Insulation	65.16	11.39
<i>For Work In Restricted Working Space, Add</i>	8.54	
23 07 19 00-0044 LF 14" Diameter Pipe, 2" Thick Calcium Silicate Insulation	80.06	15.89
<i>For Work In Restricted Working Space, Add</i>	11.92	
23 07 19 00-0045 LF 16" Diameter Pipe, 2" Thick Calcium Silicate Insulation	84.19	15.89
<i>For Work In Restricted Working Space, Add</i>	11.92	
23 07 19 00-0046 LF 18" Diameter Pipe, 2" Thick Calcium Silicate Insulation	90.22	16.69
<i>For Work In Restricted Working Space, Add</i>	12.51	
23 07 19 00-0047 LF 20" Diameter Pipe, 2" Thick Calcium Silicate Insulation	107.41	19.07
<i>For Work In Restricted Working Space, Add</i>	14.30	
23 07 19 00-0048 LF 24" Diameter Pipe, 2" Thick Calcium Silicate Insulation	125.20	23.04
<i>For Work In Restricted Working Space, Add</i>	17.28	
23 07 19 00-0049 2-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0050 LF 1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	27.12	5.95
<i>For Work In Restricted Working Space, Add</i>	4.47	
23 07 19 00-0051 LF 3/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	27.67	5.95
<i>For Work In Restricted Working Space, Add</i>	4.47	
23 07 19 00-0052 LF 1" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	28.15	6.05
<i>For Work In Restricted Working Space, Add</i>	4.54	
23 07 19 00-0053 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	28.42	6.10
<i>For Work In Restricted Working Space, Add</i>	4.58	
23 07 19 00-0054 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	29.13	6.15
<i>For Work In Restricted Working Space, Add</i>	4.61	
23 07 19 00-0055 LF 2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	30.36	6.40
<i>For Work In Restricted Working Space, Add</i>	4.80	
23 07 19 00-0056 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	34.07	6.62
<i>For Work In Restricted Working Space, Add</i>	4.97	
23 07 19 00-0057 LF 3" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	34.65	6.85
<i>For Work In Restricted Working Space, Add</i>	5.14	
23 07 19 00-0058 LF 4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	39.92	7.22
<i>For Work In Restricted Working Space, Add</i>	5.42	
23 07 19 00-0059 LF 6" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	49.61	8.21
<i>For Work In Restricted Working Space, Add</i>	6.16	
23 07 19 00-0060 LF 8" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	56.59	9.15
<i>For Work In Restricted Working Space, Add</i>	6.86	
23 07 19 00-0061 LF 10" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	67.54	10.55
<i>For Work In Restricted Working Space, Add</i>	7.91	
23 07 19 00-0062 LF 12" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	78.71	13.12
<i>For Work In Restricted Working Space, Add</i>	9.84	
23 07 19 00-0063 LF 14" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	87.04	14.32
<i>For Work In Restricted Working Space, Add</i>	10.74	
23 07 19 00-0064 LF 16" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	105.78	18.31
<i>For Work In Restricted Working Space, Add</i>	13.73	
23 07 19 00-0065 LF 18" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	111.70	19.22
<i>For Work In Restricted Working Space, Add</i>	14.42	
23 07 19 00-0066 LF 20" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	129.54	21.97
<i>For Work In Restricted Working Space, Add</i>	16.48	
23 07 19 00-0067 LF 24" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	152.29	26.54
<i>For Work In Restricted Working Space, Add</i>	19.91	
23 07 19 00-0068 3" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0069 LF 1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation	34.10	6.59
<i>For Work In Restricted Working Space, Add</i>	4.94	
23 07 19 00-0070 LF 3/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation	34.22	6.59
<i>For Work In Restricted Working Space, Add</i>	4.94	
23 07 19 00-0071 LF 1" Diameter Pipe, 3" Thick Calcium Silicate Insulation	34.53	6.66
<i>For Work In Restricted Working Space, Add</i>	5.00	
23 07 19 00-0072 LF 1-1/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation	34.89	6.71
<i>For Work In Restricted Working Space, Add</i>	5.03	
23 07 19 00-0073 LF 1-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation	35.21	6.78
<i>For Work In Restricted Working Space, Add</i>	5.08	
23 07 19 00-0074 LF 2" Diameter Pipe, 3" Thick Calcium Silicate Insulation	36.41	7.03
<i>For Work In Restricted Working Space, Add</i>	5.27	
23 07 19 00-0075 LF 2-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation	40.34	7.27
<i>For Work In Restricted Working Space, Add</i>	5.45	
23 07 19 00-0076 LF 3" Diameter Pipe, 3" Thick Calcium Silicate Insulation	41.16	7.53
<i>For Work In Restricted Working Space, Add</i>	5.65	
23 07 19 00-0077 LF 4" Diameter Pipe, 3" Thick Calcium Silicate Insulation	48.41	7.96
<i>For Work In Restricted Working Space, Add</i>	5.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0078 LF 6" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	57.38 6.77	9.03
23 07 19 00-0079 LF 8" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	66.62 7.55	10.06
23 07 19 00-0080 LF 10" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	79.08 8.71	11.61
23 07 19 00-0081 LF 12" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	91.46 10.82	14.43
23 07 19 00-0082 LF 14" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	101.49 11.82	15.75
23 07 19 00-0083 LF 16" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	118.95 15.10	20.14
23 07 19 00-0084 LF 18" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	128.19 15.86	21.14
23 07 19 00-0085 LF 20" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	150.04 18.13	24.17
23 07 19 00-0086 LF 24" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	177.55 21.90	29.20
23 07 19 00-0087 3-1/2" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0088 LF 1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	43.32 5.42	7.22
23 07 19 00-0089 LF 3/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	44.92 5.42	7.22
23 07 19 00-0090 LF 1" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	45.03 5.45	7.27
23 07 19 00-0091 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	45.16 5.49	7.31
23 07 19 00-0092 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	46.57 5.56	7.41
23 07 19 00-0093 LF 2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	49.38 5.74	7.65
23 07 19 00-0094 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	53.58 5.95	7.93
23 07 19 00-0095 LF 3" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	55.49 6.16	8.21
23 07 19 00-0096 LF 4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	63.13 6.51	8.68
23 07 19 00-0097 LF 6" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	70.46 7.39	9.85
23 07 19 00-0098 LF 8" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	85.69 8.23	10.97
23 07 19 00-0099 LF 10" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	104.06 9.50	12.66
23 07 19 00-0100 LF 12" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	126.03 11.81	15.74
23 07 19 00-0101 LF 14" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	132.83 12.89	17.19
23 07 19 00-0102 LF 16" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	155.10 16.48	21.97
23 07 19 00-0103 LF 18" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	177.94 17.30	23.06
23 07 19 00-0104 LF 20" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	192.17 19.79	26.38
23 07 19 00-0105 4" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0106 LF 1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	54.00 6.02	8.03
23 07 19 00-0107 LF 3/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	54.05 6.02	8.03
23 07 19 00-0108 LF 1" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	54.40 6.12	8.16
23 07 19 00-0109 LF 1-1/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	55.88 6.19	8.26
23 07 19 00-0110 LF 1-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	59.15 6.39	8.52
23 07 19 00-0111 LF 2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	60.38 6.59	8.78
23 07 19 00-0112 LF 2-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	65.87 6.69	8.91
23 07 19 00-0113 LF 3" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	67.78 6.93	9.24
23 07 19 00-0114 LF 4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	76.87 7.32	9.76
23 07 19 00-0115 LF 6" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	88.91 8.30	11.07
23 07 19 00-0116 LF 8" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	105.84 9.26	12.34
23 07 19 00-0117 LF 10" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	121.87 10.70	14.26
23 07 19 00-0118 LF 12" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	138.94 13.28	17.71

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 07 HVAC Insulation

23 07 19 HVAC Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0119 LF 14" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	147.83 14.51	19.34
23 07 19 00-0120 LF 16" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	175.24 18.55	24.73
23 07 19 00-0121 LF 18" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	186.33 19.44	25.92
23 07 19 00-0122 LF 20" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	206.32 22.25	29.66
23 07 19 00-0123 Weather-Protective Coating For Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0124 SF 1/4" Thick (Two 1/8" Coats), Weatherproof Coating Over Glass Cloth Mesh (Insulkote ET) <i>For Work In Restricted Working Space, Add</i>	6.53 1.28	

23 20 HVAC Piping and Pumps (23)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 Hydronic Piping and Pumps (23 20)

23 21 13 Hydronic Piping (23 21)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 13 23 Aboveground Hydronic Piping (23 21 13)

23 21 13 23-0001 Threaded Black Steel Pipe (23 21 13 23)

23 21 13 23-0002 Threaded Black Steel Pipe Assemblies (23 21 13 23-0001)

23 21 13 23-0003 LF 1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly <i>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>	23.82	5.42
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	5.59	
<i>For Work In Restricted Working Space, Add</i>	5.60	
23 21 13 23-0004 LF 3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly <i>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>	25.89	5.82
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	6.20	
<i>For Work In Restricted Working Space, Add</i>	5.85	
23 21 13 23-0005 LF 1" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly <i>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>	28.51	6.37
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	6.97	
<i>For Work In Restricted Working Space, Add</i>	6.17	
23 21 13 23-0006 LF 1-1/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly <i>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>	33.62	6.64
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	8.55	
<i>For Work In Restricted Working Space, Add</i>	6.66	
23 21 13 23-0007 LF 1-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly <i>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>	35.59	7.86
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	9.21	
<i>For Work In Restricted Working Space, Add</i>	6.75	
23 21 13 23-0008 LF 2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly <i>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>	42.44	9.48
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	11.22	
<i>For Work In Restricted Working Space, Add</i>	7.61	
23 21 13 23-0009 LF 2-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly <i>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>	61.46	11.24
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	17.09	
<i>For Work In Restricted Working Space, Add</i>	9.44	
23 21 13 23-0010 LF 3" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly <i>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>	77.76	15.04
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	21.83	
<i>For Work In Restricted Working Space, Add</i>	11.57	
23 21 13 23-0011 LF 4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly <i>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>	106.22	16.16
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	32.01	
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 21 13 23-0012 LF 5" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly <i>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>	172.78	20.65
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	54.78	
<i>For Work In Restricted Working Space, Add</i>	13.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0013 LF 6" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....205.47 Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 65.57 For Work In Restricted Working Space, Add 15.76	205.47 65.57 15.76	24.42
23 21 13 23-0014 Threaded Black Steel Pipe And Fittings (23 21 13 23-0001) Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
23 21 13 23-0015 Threaded And Coupled, Black Steel Piping (23 21 13 23-0014) Note: ASTM A-53. Includes coupling.		
23 21 13 23-0016 LF 3/8" Schedule 40, Threaded And Coupled, Black Steel Pipe .....8.76 For Schedule 80 Pipe, Add 1.55 For Work In Restricted Working Space, Add 2.05	8.76 1.55 2.05	3.39
23 21 13 23-0017 LF 1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe .....11.42 For Schedule 80 Pipe, Add 2.27 For Work In Restricted Working Space, Add 2.46	11.42 2.27 2.46	5.42
23 21 13 23-0018 LF 3/4" Schedule 40, Threaded And Coupled, Black Steel Pipe .....12.90 For Schedule 80 Pipe, Add 2.75 For Work In Restricted Working Space, Add 2.62	12.90 2.75 2.62	5.82
23 21 13 23-0019 LF 1" Schedule 40, Threaded And Coupled, Black Steel Pipe .....15.02 For Schedule 80 Pipe, Add 3.44 For Work In Restricted Working Space, Add 2.84	15.02 3.44 2.84	6.37
23 21 13 23-0020 LF 1-1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe .....17.46 For Schedule 80 Pipe, Add 4.34 For Work In Restricted Working Space, Add 3.01	17.46 4.34 3.01	6.64
23 21 13 23-0021 LF 1-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe .....20.66 For Schedule 80 Pipe, Add 5.17 For Work In Restricted Working Space, Add 3.53	20.66 5.17 3.53	7.86
23 21 13 23-0022 LF 2" Schedule 40, Threaded And Coupled, Black Steel Pipe .....25.89 For Schedule 80 Pipe, Add 6.66 For Work In Restricted Working Space, Add 4.28	25.89 6.66 4.28	9.48
23 21 13 23-0023 LF 2-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe .....35.31 For Schedule 80 Pipe, Add 9.96 For Work In Restricted Working Space, Add 5.08	35.31 9.96 5.08	11.24
23 21 13 23-0024 LF 3" Schedule 40, Threaded And Coupled, Black Steel Pipe .....46.64 For Schedule 80 Pipe, Add 13.09 For Work In Restricted Working Space, Add 6.77	46.64 13.09 6.77	15.04
23 21 13 23-0025 LF 4" Schedule 40, Threaded And Coupled, Black Steel Pipe .....60.26 For Schedule 80 Pipe, Add 18.61 For Work In Restricted Working Space, Add 7.29	60.26 18.61 7.29	16.16
23 21 13 23-0026 LF 5" Schedule 40, Threaded And Coupled, Black Steel Pipe .....78.71 For Schedule 80 Pipe, Add 24.60 For Work In Restricted Working Space, Add 9.28	78.71 24.60 9.28	20.65
23 21 13 23-0027 LF 6" Schedule 40, Threaded And Coupled, Black Steel Pipe .....99.60 For Schedule 80 Pipe, Add 32.02 For Work In Restricted Working Space, Add 10.97	99.60 32.02 10.97	24.42
23 21 13 23-0028 LF 8" Schedule 40, Threaded And Coupled, Black Steel Pipe .....137.66 For Schedule 80 Pipe, Add 46.48 For Work In Restricted Working Space, Add 13.25	137.66 46.48 13.25	29.52
23 21 13 23-0029 LF 10" Schedule 40, Threaded And Coupled, Black Steel Pipe .....186.30 For Schedule 80 Pipe, Add 64.94 For Work In Restricted Working Space, Add 16.20	186.30 64.94 16.20	35.96
23 21 13 23-0030 LF 12" Schedule 40, Threaded And Coupled, Black Steel Pipe .....248.77 For Schedule 80 Pipe, Add 87.14 For Work In Restricted Working Space, Add 21.26	248.77 87.14 21.26	47.26
23 21 13 23-0031 Black Malleable Iron 90 Degree Elbows (23 21 13 23-0014)		
23 21 13 23-0032 EA 3/8", 150 LB, Black Malleable Iron 90 Degree Elbow .....37.94 For 300 LB Rating, Add 20.62 For Standard Weight Cast Iron Fittings, Add 0.13 For Work In Restricted Working Space, Add 9.03	37.94 20.62 0.13 9.03	20.06
23 21 13 23-0033 EA 1/2", 150 LB, Black Malleable Iron 90 Degree Elbow .....41.56 For 300 LB Rating, Add 15.20 For Standard Weight Cast Iron Fittings, Add 0.09 For Work In Restricted Working Space, Add 10.84	41.56 15.20 0.09 10.84	24.12
23 21 13 23-0034 EA 3/4", 150 LB, Black Malleable Iron 90 Degree Elbow .....46.99 For 300 LB Rating, Add 18.15 For Standard Weight Cast Iron Fittings, Add 0.10 For Work In Restricted Working Space, Add 12.13	46.99 18.15 0.10 12.13	26.97
23 21 13 23-0035 EA 1", 150 LB, Black Malleable Iron 90 Degree Elbow .....56.54 For 300 LB Rating, Add 30.02 For Standard Weight Cast Iron Fittings, Add 0.18 For Work In Restricted Working Space, Add 13.55	56.54 30.02 0.18 13.55	30.07
23 21 13 23-0036 EA 1-1/4", 150 LB, Black Malleable Iron 90 Degree Elbow .....69.88 For 300 LB Rating, Add 48.09 For Standard Weight Cast Iron Fittings, Add 0.30 For Work In Restricted Working Space, Add 15.34	69.88 48.09 0.30 15.34	34.15
23 21 13 23-0037 EA 1-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow .....82.34 For 300 LB Rating, Add 62.72 For Standard Weight Cast Iron Fittings, Add 0.40 For Work In Restricted Working Space, Add 17.30	82.34 62.72 0.40 17.30	38.48

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0038 EA 2", 150 LB, Black Malleable Iron 90 Degree Elbow.....	115.81	48.91
For 300 LB Rating, Add	106.59	
For Standard Weight Cast Iron Fittings, Add	0.68	
For Work In Restricted Working Space, Add	21.97	
23 21 13 23-0039 EA 2-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow	203.23	72.35
For 300 LB Rating, Add	234.12	
For Standard Weight Cast Iron Fittings, Add	1.52	
For Work In Restricted Working Space, Add	32.52	
23 21 13 23-0040 EA 3", 150 LB, Black Malleable Iron 90 Degree Elbow.....	281.40	95.11
For 300 LB Rating, Add	341.63	
For Standard Weight Cast Iron Fittings, Add	2.22	
For Work In Restricted Working Space, Add	42.79	
23 21 13 23-0041 EA 4", 150 LB, Black Malleable Iron 90 Degree Elbow.....	439.83	94.52
For 300 LB Rating, Add	723.92	
For Standard Weight Cast Iron Fittings, Add	4.77	
For Work In Restricted Working Space, Add	42.52	
23 21 13 23-0042 EA 5", 150 LB, Black Malleable Iron 90 Degree Elbow.....	1,018.95	98.65
For 300 LB Rating, Add	2,099.39	
For Standard Weight Cast Iron Fittings, Add	13.94	
For Work In Restricted Working Space, Add	44.37	
23 21 13 23-0043 EA 6", 150 LB, Black Malleable Iron 90 Degree Elbow.....	1,160.82	103.14
For 300 LB Rating, Add	2,424.13	
For Standard Weight Cast Iron Fittings, Add	16.10	
For Work In Restricted Working Space, Add	46.39	
23 21 13 23-0044 Black Malleable Iron Reducing 90 Degree Elbows <small>(23 21 13 23-0014)</small>		
23 21 13 23-0045 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	43.45	22.09
For 300 LB Rating, Add	26.80	
For Standard Weight Cast Iron Fittings, Add	0.17	
For Work In Restricted Working Space, Add	9.93	
23 21 13 23-0046 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	48.93	25.47
For 300 LB Rating, Add	27.83	
For Standard Weight Cast Iron Fittings, Add	0.17	
For Work In Restricted Working Space, Add	11.49	
23 21 13 23-0047 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	50.16	23.58
For 300 LB Rating, Add	37.83	
For Standard Weight Cast Iron Fittings, Add	0.24	
For Work In Restricted Working Space, Add	10.58	
23 21 13 23-0048 EA 1" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	56.48	28.58
For 300 LB Rating, Add	35.40	
For Standard Weight Cast Iron Fittings, Add	0.22	
For Work In Restricted Working Space, Add	12.84	
23 21 13 23-0049 EA 1" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	55.40	27.10
For 300 LB Rating, Add	37.86	
For Standard Weight Cast Iron Fittings, Add	0.24	
For Work In Restricted Working Space, Add	12.19	
23 21 13 23-0050 EA 1" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	66.68	25.06
For 300 LB Rating, Add	71.95	
For Standard Weight Cast Iron Fittings, Add	0.46	
For Work In Restricted Working Space, Add	11.29	
23 21 13 23-0051 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	71.12	32.11
For 300 LB Rating, Add	58.04	
For Standard Weight Cast Iron Fittings, Add	0.37	
For Work In Restricted Working Space, Add	14.44	
23 21 13 23-0052 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	71.42	30.49
For 300 LB Rating, Add	64.28	
For Standard Weight Cast Iron Fittings, Add	0.41	
For Work In Restricted Working Space, Add	13.73	
23 21 13 23-0053 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	73.59	29.13
For 300 LB Rating, Add	74.52	
For Standard Weight Cast Iron Fittings, Add	0.48	
For Work In Restricted Working Space, Add	13.09	
23 21 13 23-0054 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	86.80	36.31
For 300 LB Rating, Add	81.07	
For Standard Weight Cast Iron Fittings, Add	0.52	
For Work In Restricted Working Space, Add	16.31	
23 21 13 23-0055 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	83.83	34.28
For 300 LB Rating, Add	80.89	
For Standard Weight Cast Iron Fittings, Add	0.52	
For Work In Restricted Working Space, Add	15.42	
23 21 13 23-0056 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	86.14	32.65
For 300 LB Rating, Add	91.98	
For Standard Weight Cast Iron Fittings, Add	0.59	
For Work In Restricted Working Space, Add	14.71	
23 21 13 23-0057 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	112.41	43.63
For 300 LB Rating, Add	116.65	
For Standard Weight Cast Iron Fittings, Add	0.75	
For Work In Restricted Working Space, Add	19.63	
23 21 13 23-0058 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	115.56	41.46
For 300 LB Rating, Add	131.84	
For Standard Weight Cast Iron Fittings, Add	0.85	
For Work In Restricted Working Space, Add	18.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0059 EA 2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.57 131.66 0.85 17.76	39.43
23 21 13 23-0060 EA 2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.44 139.25 0.91 17.05	37.94
23 21 13 23-0061 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	219.72 314.83 2.06 27.24	60.56
23 21 13 23-0062 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	219.53 332.58 2.18 24.91	55.42
23 21 13 23-0063 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	366.75 586.53 3.86 37.65	83.73
23 21 13 23-0064 EA 3" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	316.33 506.64 3.33 32.38	71.94
23 21 13 23-0065 EA 4" x 3", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	547.13 997.63 6.60 40.45	89.90
23 21 13 23-0066 Black Malleable Iron 45 Degree Elbows <small>(23 21 13 23-0014)</small>		
23 21 13 23-0067 EA 3/8", 150 LB, Black Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	41.90 30.13 0.19 9.03	20.06
23 21 13 23-0068 EA 1/2", 150 LB, Black Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.11 23.72 0.14 10.84	24.12
23 21 13 23-0069 EA 3/4", 150 LB, Black Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.53 29.04 0.18 12.13	26.97
23 21 13 23-0070 EA 1", 150 LB, Black Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.12 36.21 0.22 13.55	30.07
23 21 13 23-0071 EA 1-1/4", 150 LB, Black Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.83 62.37 0.40 15.34	34.15
23 21 13 23-0072 EA 1-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.22 76.83 0.49 17.30	38.48
23 21 13 23-0073 EA 2", 150 LB, Black Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.45 115.32 0.74 21.97	48.91
23 21 13 23-0074 EA 2-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	242.12 327.46 2.14 32.52	72.35
23 21 13 23-0075 EA 3", 150 LB, Black Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	316.32 425.44 2.78 42.79	95.11
23 21 13 23-0076 EA 4", 150 LB, Black Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	482.37 826.02 5.45 42.52	94.52
23 21 13 23-0077 EA 5", 150 LB, Black Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,493.39 3,238.05 21.53 44.37	98.65
23 21 13 23-0078 EA 6", 150 LB, Black Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,531.22 3,313.09 22.03 46.39	103.14

23 21 13 23-0079 Black Malleable Iron Tees (23 21 13 23-0014)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0080 EA 3/8", 150 LB, Black Malleable Iron Tee.....	49.02	24.79
For 300 LB Rating, Add	29.57	
For Standard Weight Cast Iron Fittings, Add	0.18	
For Work In Restricted Working Space, Add	11.29	
23 21 13 23-0081 EA 1/2", 150 LB, Black Malleable Iron Tee.....	52.43	30.07
For 300 LB Rating, Add	20.16	
For Standard Weight Cast Iron Fittings, Add	0.12	
For Work In Restricted Working Space, Add	13.55	
23 21 13 23-0082 EA 3/4", 150 LB, Black Malleable Iron Tee.....	62.53	34.82
For 300 LB Rating, Add	28.13	
For Standard Weight Cast Iron Fittings, Add	0.17	
For Work In Restricted Working Space, Add	15.63	
23 21 13 23-0083 EA 1", 150 LB, Black Malleable Iron Tee.....	79.43	41.06
For 300 LB Rating, Add	46.53	
For Standard Weight Cast Iron Fittings, Add	0.29	
For Work In Restricted Working Space, Add	18.47	
23 21 13 23-0084 EA 1-1/4", 150 LB, Black Malleable Iron Tee.....	102.13	48.91
For 300 LB Rating, Add	73.75	
For Standard Weight Cast Iron Fittings, Add	0.46	
For Work In Restricted Working Space, Add	21.97	
23 21 13 23-0085 EA 1-1/2", 150 LB, Black Malleable Iron Tee.....	123.35	58.26
For 300 LB Rating, Add	91.50	
For Standard Weight Cast Iron Fittings, Add	0.58	
For Work In Restricted Working Space, Add	26.22	
23 21 13 23-0086 EA 2", 150 LB, Black Malleable Iron Tee.....	169.65	72.35
For 300 LB Rating, Add	153.53	
For Standard Weight Cast Iron Fittings, Add	0.98	
For Work In Restricted Working Space, Add	32.52	
23 21 13 23-0087 EA 2-1/2", 150 LB, Black Malleable Iron Tee.....	274.68	95.11
For 300 LB Rating, Add	325.50	
For Standard Weight Cast Iron Fittings, Add	2.11	
For Work In Restricted Working Space, Add	42.79	
23 21 13 23-0088 EA 3", 150 LB, Black Malleable Iron Tee.....	363.88	113.00
For 300 LB Rating, Add	477.01	
For Standard Weight Cast Iron Fittings, Add	3.11	
For Work In Restricted Working Space, Add	50.81	
23 21 13 23-0089 EA 4", 150 LB, Black Malleable Iron Tee.....	649.20	119.43
For 300 LB Rating, Add	1,139.13	
For Standard Weight Cast Iron Fittings, Add	7.52	
For Work In Restricted Working Space, Add	53.71	
23 21 13 23-0090 EA 5", 150 LB, Black Malleable Iron Tee.....	1,637.37	141.78
For 300 LB Rating, Add	3,432.18	
For Standard Weight Cast Iron Fittings, Add	22.80	
For Work In Restricted Working Space, Add	63.78	
23 21 13 23-0091 EA 6", 150 LB, Black Malleable Iron Tee.....	1,772.01	162.07
For 300 LB Rating, Add	3,684.23	
For Standard Weight Cast Iron Fittings, Add	24.46	
For Work In Restricted Working Space, Add	72.90	
23 21 13 23-0092 Black Malleable Iron Reducing Tees (23 21 13 23-0014)		
23 21 13 23-0093 EA 1/2", 150 LB, Black Malleable Iron Reducing Tee.....	57.51	30.07
For 300 LB Rating, Add	32.35	
For Standard Weight Cast Iron Fittings, Add	0.20	
For Work In Restricted Working Space, Add	13.55	
23 21 13 23-0094 EA 3/4", 150 LB, Black Malleable Iron Reducing Tee.....	68.23	34.82
For 300 LB Rating, Add	41.81	
For Standard Weight Cast Iron Fittings, Add	0.26	
For Work In Restricted Working Space, Add	15.63	
23 21 13 23-0095 EA 1", 150 LB, Black Malleable Iron Reducing Tee.....	81.91	41.06
For 300 LB Rating, Add	52.49	
For Standard Weight Cast Iron Fittings, Add	0.33	
For Work In Restricted Working Space, Add	18.47	
23 21 13 23-0096 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Tee.....	113.20	48.91
For 300 LB Rating, Add	100.32	
For Standard Weight Cast Iron Fittings, Add	0.64	
For Work In Restricted Working Space, Add	21.97	
23 21 13 23-0097 EA 1-1/2", 150 LB, Black Malleable Iron Reducing Tee.....	131.70	58.26
For 300 LB Rating, Add	111.54	
For Standard Weight Cast Iron Fittings, Add	0.71	
For Work In Restricted Working Space, Add	26.22	
23 21 13 23-0098 EA 2", 150 LB, Black Malleable Iron Reducing Tee.....	172.68	72.35
For 300 LB Rating, Add	160.80	
For Standard Weight Cast Iron Fittings, Add	1.03	
For Work In Restricted Working Space, Add	32.52	
23 21 13 23-0099 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Tee.....	342.94	95.11
For 300 LB Rating, Add	489.33	
For Standard Weight Cast Iron Fittings, Add	3.21	
For Work In Restricted Working Space, Add	42.79	
23 21 13 23-0100 EA 3", 150 LB, Black Malleable Iron Reducing Tee.....	398.81	113.00
For 300 LB Rating, Add	560.84	
For Standard Weight Cast Iron Fittings, Add	3.67	
For Work In Restricted Working Space, Add	50.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0101 EA 4", 150 LB, Black Malleable Iron Reducing Tee.....	735.50	119.43
For 300 LB Rating, Add	1,346.25	
For Standard Weight Cast Iron Fittings, Add	8.90	
For Work In Restricted Working Space, Add	53.71	
23 21 13 23-0102 EA 5", 150 LB, Black Malleable Iron Reducing Tee.....	1,503.29	141.78
For 300 LB Rating, Add	3,110.39	
For Standard Weight Cast Iron Fittings, Add	20.65	
For Work In Restricted Working Space, Add	63.78	
23 21 13 23-0103 EA 6", 150 LB, Black Malleable Iron Reducing Tee.....	1,706.93	162.07
For 300 LB Rating, Add	3,528.04	
For Standard Weight Cast Iron Fittings, Add	23.42	
For Work In Restricted Working Space, Add	72.90	
23 21 13 23-0104 Black Malleable Iron Couplings <small>(23 21 13 23-0014)</small>		
23 21 13 23-0105 EA 3/8", 150 LB, Black Malleable Iron Coupling.....	39.85	20.06
For 300 LB Rating, Add	25.21	
For Standard Weight Cast Iron Fittings, Add	0.16	
For Work In Restricted Working Space, Add	9.03	
23 21 13 23-0106 EA 1/2", 150 LB, Black Malleable Iron Coupling.....	43.64	24.12
For 300 LB Rating, Add	20.19	
For Standard Weight Cast Iron Fittings, Add	0.12	
For Work In Restricted Working Space, Add	10.84	
23 21 13 23-0107 EA 3/4", 150 LB, Black Malleable Iron Coupling.....	49.23	26.97
For 300 LB Rating, Add	23.52	
For Standard Weight Cast Iron Fittings, Add	0.14	
For Work In Restricted Working Space, Add	12.13	
23 21 13 23-0108 EA 1", 150 LB, Black Malleable Iron Coupling.....	58.33	30.07
For 300 LB Rating, Add	34.32	
For Standard Weight Cast Iron Fittings, Add	0.21	
For Work In Restricted Working Space, Add	13.55	
23 21 13 23-0109 EA 1-1/4", 150 LB, Black Malleable Iron Coupling.....	68.17	34.15
For 300 LB Rating, Add	43.99	
For Standard Weight Cast Iron Fittings, Add	0.27	
For Work In Restricted Working Space, Add	15.34	
23 21 13 23-0110 EA 1-1/2", 150 LB, Black Malleable Iron Coupling.....	80.69	38.48
For 300 LB Rating, Add	58.76	
For Standard Weight Cast Iron Fittings, Add	0.37	
For Work In Restricted Working Space, Add	17.30	
23 21 13 23-0111 EA 2", 150 LB, Black Malleable Iron Coupling.....	107.38	48.91
For 300 LB Rating, Add	86.35	
For Standard Weight Cast Iron Fittings, Add	0.55	
For Work In Restricted Working Space, Add	21.97	
23 21 13 23-0112 EA 2-1/2", 150 LB, Black Malleable Iron Coupling.....	202.62	72.35
For 300 LB Rating, Add	232.66	
For Standard Weight Cast Iron Fittings, Add	1.51	
For Work In Restricted Working Space, Add	32.52	
23 21 13 23-0113 EA 3", 150 LB, Black Malleable Iron Coupling.....	270.02	95.11
For 300 LB Rating, Add	314.32	
For Standard Weight Cast Iron Fittings, Add	2.04	
For Work In Restricted Working Space, Add	42.79	
23 21 13 23-0114 EA 4", 150 LB, Black Malleable Iron Coupling.....	398.31	94.52
For 300 LB Rating, Add	624.27	
For Standard Weight Cast Iron Fittings, Add	4.11	
For Work In Restricted Working Space, Add	42.52	
23 21 13 23-0115 EA 5", 150 LB, Black Malleable Iron Coupling.....	870.36	98.65
For 300 LB Rating, Add	1,742.78	
For Standard Weight Cast Iron Fittings, Add	11.56	
For Work In Restricted Working Space, Add	44.37	
23 21 13 23-0116 EA 6", 150 LB, Black Malleable Iron Coupling.....	977.69	103.14
For 300 LB Rating, Add	1,984.62	
For Standard Weight Cast Iron Fittings, Add	13.17	
For Work In Restricted Working Space, Add	46.39	
23 21 13 23-0117 Black Malleable Iron Reducing Couplings <small>(23 21 13 23-0014)</small>		
23 21 13 23-0118 EA 1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	45.45	24.12
For 300 LB Rating, Add	24.54	
For Standard Weight Cast Iron Fittings, Add	0.15	
For Work In Restricted Working Space, Add	10.84	
23 21 13 23-0119 EA 3/4", 150 LB, Black Malleable Iron Reducing Coupling.....	50.31	26.97
For 300 LB Rating, Add	26.11	
For Standard Weight Cast Iron Fittings, Add	0.16	
For Work In Restricted Working Space, Add	12.13	
23 21 13 23-0120 EA 1", 150 LB, Black Malleable Iron Reducing Coupling.....	60.53	30.07
For 300 LB Rating, Add	39.60	
For Standard Weight Cast Iron Fittings, Add	0.25	
For Work In Restricted Working Space, Add	13.55	
23 21 13 23-0121 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Coupling.....	70.88	34.15
For 300 LB Rating, Add	50.49	
For Standard Weight Cast Iron Fittings, Add	0.32	
For Work In Restricted Working Space, Add	15.34	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0122 EA 1-1/2", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	82.62 63.39 0.40 17.30	38.48
23 21 13 23-0123 EA 2", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	109.42 91.25 0.58 21.97	48.91
23 21 13 23-0124 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	215.34 263.18 1.71 32.52	72.35
23 21 13 23-0125 EA 3", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	272.63 320.58 2.08 42.79	95.11
23 21 13 23-0126 EA 4", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	402.32 633.90 4.17 42.52	94.52
23 21 13 23-0127 EA 5", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	733.60 1,414.55 9.37 44.37	98.65
23 21 13 23-0128 EA 6", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	906.91 1,814.75 12.04 46.39	103.14
23 21 13 23-0129 Black Malleable Iron Caps <small>(23 21 13 23-0014)</small>		
23 21 13 23-0130 EA 1/2", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.75 14.18 0.09 4.88	10.70
23 21 13 23-0131 EA 3/4", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.62 18.92 0.12 5.46	12.06
23 21 13 23-0132 EA 1", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	29.33 22.82 0.14 6.10	13.42
23 21 13 23-0133 EA 1-1/4", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.84 29.80 0.19 6.90	15.18
23 21 13 23-0134 EA 1-1/2", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	42.23 40.63 0.26 7.79	17.07
23 21 13 23-0135 EA 2", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	56.72 59.03 0.38 9.89	21.82
23 21 13 23-0136 EA 2-1/2", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	103.31 133.82 0.87 14.63	32.25
23 21 13 23-0137 EA 3", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	144.61 196.88 1.29 19.25	42.40
23 21 13 23-0138 EA 4", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	201.70 334.83 2.21 19.13	42.16
23 21 13 23-0139 EA 5", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	395.27 792.92 5.26 19.97	43.98
23 21 13 23-0140 EA 6", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	672.15 1,450.34 9.64 20.87	45.93
23 21 13 23-0141 Black Malleable Iron Unions <small>(23 21 13 23-0014)</small>		
23 21 13 23-0142 EA 3/8", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	56.44 9.03	20.06
23 21 13 23-0143 EA 1/2", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	68.99 13.55	30.07
23 21 13 23-0144 EA 3/4", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	79.50 15.63	34.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0145 EA 1", 150 LB, Black Malleable Iron Union.....	97.30	41.06
<i>For Work In Restricted Working Space, Add</i>	18.47	
23 21 13 23-0146 EA 1-1/4", 150 LB, Black Malleable Iron Union	124.46	48.91
<i>For Work In Restricted Working Space, Add</i>	21.97	
23 21 13 23-0147 EA 1-1/2", 150 LB, Black Malleable Iron Union	151.27	58.26
<i>For Work In Restricted Working Space, Add</i>	26.22	
23 21 13 23-0148 EA 2", 150 LB, Black Malleable Iron Union.....	182.65	72.35
<i>For Work In Restricted Working Space, Add</i>	32.52	
23 21 13 23-0149 EA 2-1/2", 150 LB, Black Malleable Iron Union	381.24	106.62
<i>For Work In Restricted Working Space, Add</i>	48.00	
23 21 13 23-0150 EA 3", 150 LB, Black Malleable Iron Union.....	476.87	140.23
<i>For Work In Restricted Working Space, Add</i>	63.16	
23 21 13 23-0151 EA 3/8", 250 LB, Black Malleable Iron Union.....	64.90	20.06
<i>For Work In Restricted Working Space, Add</i>	9.03	
23 21 13 23-0152 EA 1/2", 250 LB, Black Malleable Iron Union.....	85.09	30.07
<i>For Work In Restricted Working Space, Add</i>	13.55	
23 21 13 23-0153 EA 3/4", 250 LB, Black Malleable Iron Union.....	91.39	34.82
<i>For Work In Restricted Working Space, Add</i>	15.63	
23 21 13 23-0154 EA 1", 250 LB, Black Malleable Iron Union.....	109.76	41.06
<i>For Work In Restricted Working Space, Add</i>	18.47	
23 21 13 23-0155 EA 1-1/4", 250 LB, Black Malleable Iron Union	154.09	48.91
<i>For Work In Restricted Working Space, Add</i>	21.97	
23 21 13 23-0156 EA 1-1/2", 250 LB, Black Malleable Iron Union	180.50	58.26
<i>For Work In Restricted Working Space, Add</i>	26.22	
23 21 13 23-0157 EA 2", 250 LB, Black Malleable Iron Union.....	227.81	72.35
<i>For Work In Restricted Working Space, Add</i>	32.52	
23 21 13 23-0158 EA 2-1/2", 250 LB, Black Malleable Iron Union	534.34	106.62
<i>For Work In Restricted Working Space, Add</i>	48.00	
23 21 13 23-0159 EA 3", 250 LB, Black Malleable Iron Union.....	648.62	140.23
<i>For Work In Restricted Working Space, Add</i>	63.16	
23 21 13 23-0160 EA 4", 250 LB, Black Malleable Iron Union.....	985.76	139.47
<i>For Work In Restricted Working Space, Add</i>	62.77	
23 21 13 23-0161 EA 3/8", 300 LB, Black Malleable Iron Union.....	86.58	20.06
<i>For Work In Restricted Working Space, Add</i>	9.03	
23 21 13 23-0162 EA 1/2", 300 LB, Black Malleable Iron Union.....	90.85	30.07
<i>For Work In Restricted Working Space, Add</i>	13.55	
23 21 13 23-0163 EA 3/4", 300 LB, Black Malleable Iron Union.....	102.70	34.82
<i>For Work In Restricted Working Space, Add</i>	15.63	
23 21 13 23-0164 EA 1", 300 LB, Black Malleable Iron Union.....	127.63	41.06
<i>For Work In Restricted Working Space, Add</i>	18.47	
23 21 13 23-0165 EA 1-1/4", 300 LB, Black Malleable Iron Union	180.97	48.91
<i>For Work In Restricted Working Space, Add</i>	21.97	
23 21 13 23-0166 EA 1-1/2", 300 LB, Black Malleable Iron Union	200.24	58.26
<i>For Work In Restricted Working Space, Add</i>	26.22	
23 21 13 23-0167 EA 2", 300 LB, Black Malleable Iron Union.....	248.15	72.35
<i>For Work In Restricted Working Space, Add</i>	32.52	
23 21 13 23-0168 EA 2-1/2", 300 LB, Black Malleable Iron Union	610.60	106.62
<i>For Work In Restricted Working Space, Add</i>	48.00	
23 21 13 23-0169 EA 3", 300 LB, Black Malleable Iron Union.....	793.44	140.23
<i>For Work In Restricted Working Space, Add</i>	63.16	
23 21 13 23-0170 EA 4", 300 LB, Black Malleable Iron Union.....	2,059.35	139.47
<i>For Work In Restricted Working Space, Add</i>	62.77	
23 21 13 23-0171 Black Steel Nipples <small>(23 21 13 23-0014)</small>		
23 21 13 23-0172 EA 3/8" x Close, Schedule 40 Black Steel Nipple.....	21.49	12.87
<i>For Schedule 80 Nipples, Add</i>	1.07	
<i>For Work In Restricted Working Space, Add</i>	5.81	
23 21 13 23-0173 EA 1/2" x Close, Schedule 40 Black Steel Nipple.....	21.16	12.87
<i>For Schedule 80 Nipples, Add</i>	0.91	
<i>For Work In Restricted Working Space, Add</i>	5.81	
23 21 13 23-0174 EA 3/4" x Close, Schedule 40 Black Steel Nipple.....	21.42	12.87
<i>For Schedule 80 Nipples, Add</i>	1.04	
<i>For Work In Restricted Working Space, Add</i>	5.81	
23 21 13 23-0175 EA 1" x Close, Schedule 40 Black Steel Nipple.....	23.85	13.95
<i>For Schedule 80 Nipples, Add</i>	1.51	
<i>For Work In Restricted Working Space, Add</i>	6.25	
23 21 13 23-0176 EA 1-1/4" x Close, Schedule 40 Black Steel Nipple	26.39	15.04
<i>For Schedule 80 Nipples, Add</i>	1.91	
<i>For Work In Restricted Working Space, Add</i>	6.77	
23 21 13 23-0177 EA 1-1/2" x Close, Schedule 40 Black Steel Nipple	27.33	15.04
<i>For Schedule 80 Nipples, Add</i>	2.38	
<i>For Work In Restricted Working Space, Add</i>	6.77	
23 21 13 23-0178 EA 2" x Close, Schedule 40 Black Steel Nipple.....	35.61	19.37
<i>For Schedule 80 Nipples, Add</i>	3.24	
<i>For Work In Restricted Working Space, Add</i>	8.74	
23 21 13 23-0179 EA 2-1/2" x Close, Schedule 40 Black Steel Nipple	56.38	24.12
<i>For Schedule 80 Nipples, Add</i>	10.13	
<i>For Work In Restricted Working Space, Add</i>	10.84	
23 21 13 23-0180 EA 3" x Close, Schedule 40 Black Steel Nipple.....	67.76	29.13
<i>For Schedule 80 Nipples, Add</i>	12.03	
<i>For Work In Restricted Working Space, Add</i>	13.11	
23 21 13 23-0181 EA 4" x Close, Schedule 40 Black Steel Nipple.....	84.84	32.43
<i>For Schedule 80 Nipples, Add</i>	18.12	
<i>For Work In Restricted Working Space, Add</i>	14.58	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0182	EA	3/8" x 1-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.78 1.22 5.81	12.87
23 21	13 23-0183	EA	1/2" x 1-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.16 0.91 5.81	12.87
23 21	13 23-0184	EA	3/4" x 1-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.58 1.12 5.81	12.87
23 21	13 23-0185	EA	3/8" x 2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.78 1.22 5.81	12.87
23 21	13 23-0186	EA	1/2" x 2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.16 0.91 5.81	12.87
23 21	13 23-0187	EA	3/4" x 2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.58 1.12 5.81	12.87
23 21	13 23-0188	EA	1" x 2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.14 1.65 6.25	13.95
23 21	13 23-0189	EA	1-1/4" x 2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.91 2.17 6.77	15.04
23 21	13 23-0190	EA	1-1/2" x 2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.71 2.57 6.77	15.04
23 21	13 23-0191	EA	3/8" x 2-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.47 1.56 5.81	12.87
23 21	13 23-0192	EA	1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.49 1.07 5.81	12.87
23 21	13 23-0193	EA	3/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.87 1.26 5.81	12.87
23 21	13 23-0194	EA	1" x 2-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.34 1.75 6.25	13.95
23 21	13 23-0195	EA	1-1/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.17 2.30 6.77	15.04
23 21	13 23-0196	EA	1-1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.31 2.87 6.77	15.04
23 21	13 23-0197	EA	2" x 2-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.57 3.72 8.74	19.37
23 21	13 23-0198	EA	3/8" x 3" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.47 1.56 5.81	12.87
23 21	13 23-0199	EA	1/2" x 3" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.49 1.07 5.81	12.87
23 21	13 23-0200	EA	3/4" x 3" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.87 1.26 5.81	12.87
23 21	13 23-0201	EA	1" x 3" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.34 1.75 6.25	13.95
23 21	13 23-0202	EA	1-1/4" x 3" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.17 2.30 6.77	15.04
23 21	13 23-0203	EA	1-1/2" x 3" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.31 2.87 6.77	15.04
23 21	13 23-0204	EA	2" x 3" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.57 3.72 8.74	19.37
23 21	13 23-0205	EA	2-1/2" x 3" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	56.91 10.39 10.84	24.12
23 21	13 23-0206	EA	3" x 3" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.86 13.08 13.11	29.13
23 21	13 23-0207	EA	3/8" x 3-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.03 1.84 5.81	12.87
23 21	13 23-0208	EA	1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.91 1.28 5.81	12.87
23 21	13 23-0209	EA	3/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.47 1.56 5.81	12.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0210 EA 1" x 3-1/2" Long, Schedule 40 Black Steel Nipple	25.17	13.95
For Schedule 80 Nipples, Add	2.17	
For Work In Restricted Working Space, Add	6.25	
23 21 13 23-0211 EA 1-1/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple	28.02	15.04
For Schedule 80 Nipples, Add	2.72	
For Work In Restricted Working Space, Add	6.77	
23 21 13 23-0212 EA 1-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	29.00	15.04
For Schedule 80 Nipples, Add	3.21	
For Work In Restricted Working Space, Add	6.77	
23 21 13 23-0213 EA 2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	38.13	19.37
For Schedule 80 Nipples, Add	4.50	
For Work In Restricted Working Space, Add	8.74	
23 21 13 23-0214 EA 2-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	60.57	24.12
For Schedule 80 Nipples, Add	12.22	
For Work In Restricted Working Space, Add	10.84	
23 21 13 23-0215 EA 3" x 3-1/2" Long, Schedule 40 Black Steel Nipple	74.67	29.13
For Schedule 80 Nipples, Add	15.49	
For Work In Restricted Working Space, Add	13.11	
23 21 13 23-0216 EA 3/8" x 4" Long, Schedule 40 Black Steel Nipple.....	23.03	12.87
For Schedule 80 Nipples, Add	1.84	
For Work In Restricted Working Space, Add	5.81	
23 21 13 23-0217 EA 1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	21.91	12.87
For Schedule 80 Nipples, Add	1.28	
For Work In Restricted Working Space, Add	5.81	
23 21 13 23-0218 EA 3/4" x 4" Long, Schedule 40 Black Steel Nipple.....	22.47	12.87
For Schedule 80 Nipples, Add	1.56	
For Work In Restricted Working Space, Add	5.81	
23 21 13 23-0219 EA 1" x 4" Long, Schedule 40 Black Steel Nipple.....	25.17	13.95
For Schedule 80 Nipples, Add	2.17	
For Work In Restricted Working Space, Add	6.25	
23 21 13 23-0220 EA 1-1/4" x 4" Long, Schedule 40 Black Steel Nipple	28.02	15.04
For Schedule 80 Nipples, Add	2.72	
For Work In Restricted Working Space, Add	6.77	
23 21 13 23-0221 EA 1-1/2" x 4" Long, Schedule 40 Black Steel Nipple	29.00	15.04
For Schedule 80 Nipples, Add	3.21	
For Work In Restricted Working Space, Add	6.77	
23 21 13 23-0222 EA 2" x 4" Long, Schedule 40 Black Steel Nipple.....	38.13	19.37
For Schedule 80 Nipples, Add	4.50	
For Work In Restricted Working Space, Add	8.74	
23 21 13 23-0223 EA 2-1/2" x 4" Long, Schedule 40 Black Steel Nipple	60.57	24.12
For Schedule 80 Nipples, Add	12.22	
For Work In Restricted Working Space, Add	10.84	
23 21 13 23-0224 EA 3" x 4" Long, Schedule 40 Black Steel Nipple.....	74.67	29.13
For Schedule 80 Nipples, Add	15.49	
For Work In Restricted Working Space, Add	13.11	
23 21 13 23-0225 EA 4" x 4" Long, Schedule 40 Black Steel Nipple.....	90.52	32.43
For Schedule 80 Nipples, Add	20.96	
For Work In Restricted Working Space, Add	14.58	
23 21 13 23-0226 EA 3/8" x 4-1/2" Long, Schedule 40 Black Steel Nipple	24.66	12.87
For Schedule 80 Nipples, Add	2.66	
For Work In Restricted Working Space, Add	5.81	
23 21 13 23-0227 EA 1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	22.36	12.87
For Schedule 80 Nipples, Add	1.51	
For Work In Restricted Working Space, Add	5.81	
23 21 13 23-0228 EA 3/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	23.27	12.87
For Schedule 80 Nipples, Add	1.96	
For Work In Restricted Working Space, Add	5.81	
23 21 13 23-0229 EA 1" x 4-1/2" Long, Schedule 40 Black Steel Nipple	25.97	13.95
For Schedule 80 Nipples, Add	2.57	
For Work In Restricted Working Space, Add	6.25	
23 21 13 23-0230 EA 1-1/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	29.09	15.04
For Schedule 80 Nipples, Add	3.26	
For Work In Restricted Working Space, Add	6.77	
23 21 13 23-0231 EA 1-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	30.43	15.04
For Schedule 80 Nipples, Add	3.93	
For Work In Restricted Working Space, Add	6.77	
23 21 13 23-0232 EA 2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	39.49	19.37
For Schedule 80 Nipples, Add	5.18	
For Work In Restricted Working Space, Add	8.74	
23 21 13 23-0233 EA 2-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	62.98	24.12
For Schedule 80 Nipples, Add	13.43	
For Work In Restricted Working Space, Add	10.84	
23 21 13 23-0234 EA 3" x 4-1/2" Long, Schedule 40 Black Steel Nipple	77.86	29.13
For Schedule 80 Nipples, Add	17.08	
For Work In Restricted Working Space, Add	13.11	
23 21 13 23-0235 EA 4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	96.50	32.43
For Schedule 80 Nipples, Add	23.95	
For Work In Restricted Working Space, Add	14.58	
23 21 13 23-0236 EA 3/8" x 5" Long, Schedule 40 Black Steel Nipple.....	24.66	12.87
For Schedule 80 Nipples, Add	2.66	
For Work In Restricted Working Space, Add	5.81	
23 21 13 23-0237 EA 1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	22.36	12.87
For Schedule 80 Nipples, Add	1.51	
For Work In Restricted Working Space, Add	5.81	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0238	EA	3/4" x 5" Long, Schedule 40 Black Steel Nipple.....	23.27	12.87
			<i>For Schedule 80 Nipples, Add</i>	1.96	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
23 21	13 23-0239	EA	1" x 5" Long, Schedule 40 Black Steel Nipple.....	25.97	13.95
			<i>For Schedule 80 Nipples, Add</i>	2.57	
			<i>For Work In Restricted Working Space, Add</i>	6.25	
23 21	13 23-0240	EA	1-1/4" x 5" Long, Schedule 40 Black Steel Nipple	29.09	15.04
			<i>For Schedule 80 Nipples, Add</i>	3.26	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
23 21	13 23-0241	EA	1-1/2" x 5" Long, Schedule 40 Black Steel Nipple	30.43	15.04
			<i>For Schedule 80 Nipples, Add</i>	3.93	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
23 21	13 23-0242	EA	2" x 5" Long, Schedule 40 Black Steel Nipple.....	39.49	19.37
			<i>For Schedule 80 Nipples, Add</i>	5.18	
			<i>For Work In Restricted Working Space, Add</i>	8.74	
23 21	13 23-0243	EA	2-1/2" x 5" Long, Schedule 40 Black Steel Nipple	62.98	24.12
			<i>For Schedule 80 Nipples, Add</i>	13.43	
			<i>For Work In Restricted Working Space, Add</i>	10.84	
23 21	13 23-0244	EA	3" x 5" Long, Schedule 40 Black Steel Nipple.....	77.86	29.13
			<i>For Schedule 80 Nipples, Add</i>	17.08	
			<i>For Work In Restricted Working Space, Add</i>	13.11	
23 21	13 23-0245	EA	4" x 5" Long, Schedule 40 Black Steel Nipple.....	96.50	32.43
			<i>For Schedule 80 Nipples, Add</i>	23.95	
			<i>For Work In Restricted Working Space, Add</i>	14.58	
23 21	13 23-0246	EA	3/8" x 6" Long, Schedule 40 Black Steel Nipple.....	25.26	12.87
			<i>For Schedule 80 Nipples, Add</i>	2.96	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
23 21	13 23-0247	EA	1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	22.72	12.87
			<i>For Schedule 80 Nipples, Add</i>	1.69	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
23 21	13 23-0248	EA	3/4" x 6" Long, Schedule 40 Black Steel Nipple.....	23.81	12.87
			<i>For Schedule 80 Nipples, Add</i>	2.23	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
23 21	13 23-0249	EA	1" x 6" Long, Schedule 40 Black Steel Nipple.....	26.91	13.95
			<i>For Schedule 80 Nipples, Add</i>	3.04	
			<i>For Work In Restricted Working Space, Add</i>	6.25	
23 21	13 23-0250	EA	1-1/4" x 6" Long, Schedule 40 Black Steel Nipple	30.30	15.04
			<i>For Schedule 80 Nipples, Add</i>	3.86	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
23 21	13 23-0251	EA	1-1/2" x 6" Long, Schedule 40 Black Steel Nipple	31.59	15.04
			<i>For Schedule 80 Nipples, Add</i>	4.51	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
23 21	13 23-0252	EA	2" x 6" Long, Schedule 40 Black Steel Nipple.....	41.27	19.37
			<i>For Schedule 80 Nipples, Add</i>	6.07	
			<i>For Work In Restricted Working Space, Add</i>	8.74	
23 21	13 23-0253	EA	2-1/2" x 6" Long, Schedule 40 Black Steel Nipple	64.12	24.12
			<i>For Schedule 80 Nipples, Add</i>	14.00	
			<i>For Work In Restricted Working Space, Add</i>	10.84	
23 21	13 23-0254	EA	3" x 6" Long, Schedule 40 Black Steel Nipple.....	80.83	29.13
			<i>For Schedule 80 Nipples, Add</i>	18.57	
			<i>For Work In Restricted Working Space, Add</i>	13.11	
23 21	13 23-0255	EA	4" x 6" Long, Schedule 40 Black Steel Nipple.....	99.80	32.43
			<i>For Schedule 80 Nipples, Add</i>	25.60	
			<i>For Work In Restricted Working Space, Add</i>	14.58	
23 21	13 23-0256	EA	3/8" x 8" Long, Schedule 40 Black Steel Nipple.....	29.72	12.87
			<i>For Schedule 80 Nipples, Add</i>	5.19	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
23 21	13 23-0257	EA	1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	25.42	12.87
			<i>For Schedule 80 Nipples, Add</i>	3.04	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
23 21	13 23-0258	EA	3/4" x 8" Long, Schedule 40 Black Steel Nipple.....	26.78	12.87
			<i>For Schedule 80 Nipples, Add</i>	3.72	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
23 21	13 23-0259	EA	1" x 8" Long, Schedule 40 Black Steel Nipple.....	30.76	13.95
			<i>For Schedule 80 Nipples, Add</i>	4.96	
			<i>For Work In Restricted Working Space, Add</i>	6.25	
23 21	13 23-0260	EA	1-1/4" x 8" Long, Schedule 40 Black Steel Nipple	35.05	15.04
			<i>For Schedule 80 Nipples, Add</i>	6.24	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
23 21	13 23-0261	EA	1-1/2" x 8" Long, Schedule 40 Black Steel Nipple	36.87	15.04
			<i>For Schedule 80 Nipples, Add</i>	7.15	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
23 21	13 23-0262	EA	2" x 8" Long, Schedule 40 Black Steel Nipple.....	49.48	19.37
			<i>For Schedule 80 Nipples, Add</i>	10.17	
			<i>For Work In Restricted Working Space, Add</i>	8.74	
23 21	13 23-0263	EA	2-1/2" x 8" Long, Schedule 40 Black Steel Nipple	71.74	24.12
			<i>For Schedule 80 Nipples, Add</i>	17.81	
			<i>For Work In Restricted Working Space, Add</i>	10.84	
23 21	13 23-0264	EA	3" x 8" Long, Schedule 40 Black Steel Nipple.....	93.78	29.13
			<i>For Schedule 80 Nipples, Add</i>	25.04	
			<i>For Work In Restricted Working Space, Add</i>	13.11	
23 21	13 23-0265	EA	4" x 8" Long, Schedule 40 Black Steel Nipple.....	107.69	32.43
			<i>For Schedule 80 Nipples, Add</i>	29.55	
			<i>For Work In Restricted Working Space, Add</i>	14.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0266 EA 3/8" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	30.99 5.82 5.81	12.87
23 21 13 23-0267 EA 1/2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.64 3.65 5.81	12.87
23 21 13 23-0268 EA 3/4" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.98 4.32 5.81	12.87
23 21 13 23-0269 EA 1" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	32.44 5.80 6.25	13.95
23 21 13 23-0270 EA 1-1/4" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	37.52 7.47 6.77	15.04
23 21 13 23-0271 EA 1-1/2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.30 8.36 6.77	15.04
23 21 13 23-0272 EA 2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.04 11.95 8.74	19.37
23 21 13 23-0273 EA 2-1/2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.13 20.00 10.84	24.12
23 21 13 23-0274 EA 3" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.96 28.13 13.11	29.13
23 21 13 23-0275 EA 4" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	115.90 33.65 14.58	32.43
23 21 13 23-0276 EA 3/8" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	32.60 6.63 5.81	12.87
23 21 13 23-0277 EA 1/2" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.00 4.33 5.81	12.87
23 21 13 23-0278 EA 3/4" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.94 4.80 5.81	12.87
23 21 13 23-0279 EA 1" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.15 6.66 6.25	13.95
23 21 13 23-0280 EA 1-1/4" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.53 8.48 6.77	15.04
23 21 13 23-0281 EA 1-1/2" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	41.85 9.64 6.77	15.04
23 21 13 23-0282 EA 2" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	56.66 13.76 8.74	19.37
23 21 13 23-0283 EA 2-1/2" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	80.64 22.26 10.84	24.12
23 21 13 23-0284 EA 3" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.14 31.22 13.11	29.13
23 21 13 23-0285 EA 4" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.49 39.45 14.58	32.43
23 21 13 23-0286 Black Malleable Iron Bushing (23 21 13 23-0014)		
23 21 13 23-0287 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	41.45 9.93	22.09
23 21 13 23-0288 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	47.60 10.67	23.71
23 21 13 23-0289 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	50.32 11.49	25.47
23 21 13 23-0290 EA 1" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	54.53 11.38	25.34
23 21 13 23-0291 EA 1" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	53.03 12.19	27.10
23 21 13 23-0292 EA 1" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	55.19 12.84	28.58
23 21 13 23-0293 EA 1-1/4" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	59.52 12.28	27.24
23 21 13 23-0294 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	61.40 13.09	29.13
23 21 13 23-0295 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	61.78 13.73	30.49
23 21 13 23-0296 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	64.14 14.44	32.11
23 21 13 23-0297 EA 1-1/2" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	68.72 13.25	29.54

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0298 EA 1-1/2" x 1/2", 150 LB, Black Malleable Iron Bushing.....	67.12	31.30
<i>For Work In Restricted Working Space, Add</i>	14.07	
23 21 13 23-0299 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	69.27	32.65
<i>For Work In Restricted Working Space, Add</i>	14.71	
23 21 13 23-0300 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Bushing.....	69.18	34.28
<i>For Work In Restricted Working Space, Add</i>	15.42	
23 21 13 23-0301 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	74.67	36.31
<i>For Work In Restricted Working Space, Add</i>	16.31	
23 21 13 23-0302 EA 2" x 3/8", 150 LB, Black Malleable Iron Bushing.....	86.63	34.68
<i>For Work In Restricted Working Space, Add</i>	15.59	
23 21 13 23-0303 EA 2" x 1/2", 150 LB, Black Malleable Iron Bushing.....	85.24	36.45
<i>For Work In Restricted Working Space, Add</i>	16.41	
23 21 13 23-0304 EA 2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	82.69	37.94
<i>For Work In Restricted Working Space, Add</i>	17.05	
23 21 13 23-0305 EA 2" x 1", 150 LB, Black Malleable Iron Bushing.....	83.41	39.43
<i>For Work In Restricted Working Space, Add</i>	17.76	
23 21 13 23-0306 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	86.40	41.46
<i>For Work In Restricted Working Space, Add</i>	18.65	
23 21 13 23-0307 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	92.39	43.63
<i>For Work In Restricted Working Space, Add</i>	19.63	
23 21 13 23-0308 EA 2-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	118.42	49.59
<i>For Work In Restricted Working Space, Add</i>	22.33	
23 21 13 23-0309 EA 2-1/2" x 1", 150 LB, Black Malleable Iron Bushing.....	120.78	51.22
<i>For Work In Restricted Working Space, Add</i>	23.03	
23 21 13 23-0310 EA 2-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	123.76	53.12
<i>For Work In Restricted Working Space, Add</i>	23.93	
23 21 13 23-0311 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	124.02	55.42
<i>For Work In Restricted Working Space, Add</i>	24.91	
23 21 13 23-0312 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Bushing.....	131.47	60.56
<i>For Work In Restricted Working Space, Add</i>	27.24	
23 21 13 23-0313 EA 3" x 3/4", 150 LB, Black Malleable Iron Bushing.....	152.39	60.97
<i>For Work In Restricted Working Space, Add</i>	27.46	
23 21 13 23-0314 EA 3" x 1", 150 LB, Black Malleable Iron Bushing.....	154.74	62.59
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 21 13 23-0315 EA 3" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	157.73	64.63
<i>For Work In Restricted Working Space, Add</i>	29.06	
23 21 13 23-0316 EA 3" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	159.81	66.79
<i>For Work In Restricted Working Space, Add</i>	30.04	
23 21 13 23-0317 EA 3" x 2", 150 LB, Black Malleable Iron Bushing.....	163.69	71.94
<i>For Work In Restricted Working Space, Add</i>	32.38	
23 21 13 23-0318 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Bushing.....	182.10	83.73
<i>For Work In Restricted Working Space, Add</i>	37.65	
23 21 13 23-0319 EA 4" x 3/4", 150 LB, Black Malleable Iron Bushing.....	205.73	59.29
<i>For Work In Restricted Working Space, Add</i>	26.70	
23 21 13 23-0320 EA 4" x 1", 150 LB, Black Malleable Iron Bushing.....	207.84	60.75
<i>For Work In Restricted Working Space, Add</i>	27.34	
23 21 13 23-0321 EA 4" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	210.51	62.57
<i>For Work In Restricted Working Space, Add</i>	28.14	
23 21 13 23-0322 EA 4" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	213.44	64.52
<i>For Work In Restricted Working Space, Add</i>	29.02	
23 21 13 23-0323 EA 4" x 2", 150 LB, Black Malleable Iron Bushing.....	214.16	69.13
<i>For Work In Restricted Working Space, Add</i>	31.11	
23 21 13 23-0324 EA 4" x 2-1/2", 150 LB, Black Malleable Iron Bushing.....	229.92	79.70
<i>For Work In Restricted Working Space, Add</i>	35.84	
23 21 13 23-0325 EA 4" x 3", 150 LB, Black Malleable Iron Bushing.....	245.27	89.90
<i>For Work In Restricted Working Space, Add</i>	40.45	
23 21 13 23-0326 Black Malleable Iron Square Head Plugs <small>(23 21 13 23-0014)</small>		
23 21 13 23-0327 EA 3/8", 150 LB, Black Malleable Iron Square Head Plug.....	18.42	8.00
<i>For Work In Restricted Working Space, Add</i>	3.62	
23 21 13 23-0328 EA 1/2", 150 LB, Black Malleable Iron Square Head Plug.....	21.25	9.62
<i>For Work In Restricted Working Space, Add</i>	4.34	
23 21 13 23-0329 EA 3/4", 150 LB, Black Malleable Iron Square Head Plug.....	22.97	10.84
<i>For Work In Restricted Working Space, Add</i>	4.85	
23 21 13 23-0330 EA 1", 150 LB, Black Malleable Iron Square Head Plug.....	26.61	12.06
<i>For Work In Restricted Working Space, Add</i>	5.42	
23 21 13 23-0331 EA 1-1/4", 150 LB, Black Malleable Iron Square Head Plug.....	31.22	13.69
<i>For Work In Restricted Working Space, Add</i>	6.14	
23 21 13 23-0332 EA 1-1/2", 150 LB, Black Malleable Iron Square Head Plug.....	38.08	15.31
<i>For Work In Restricted Working Space, Add</i>	6.92	
23 21 13 23-0333 EA 2", 150 LB, Black Malleable Iron Square Head Plug.....	50.64	19.51
<i>For Work In Restricted Working Space, Add</i>	8.79	
23 21 13 23-0334 EA 2-1/2", 150 LB, Black Malleable Iron Square Head Plug.....	82.21	28.86
<i>For Work In Restricted Working Space, Add</i>	13.01	
23 21 13 23-0335 EA 3", 150 LB, Black Malleable Iron Square Head Plug.....	110.40	38.07
<i>For Work In Restricted Working Space, Add</i>	17.12	
23 21 13 23-0336 EA 4", 150 LB, Black Malleable Iron Square Head Plug.....	168.59	37.78
<i>For Work In Restricted Working Space, Add</i>	17.01	
23 21 13 23-0337 EA 5", 150 LB, Black Malleable Iron Square Head Plug.....	299.50	39.48
<i>For Work In Restricted Working Space, Add</i>	17.75	
23 21 13 23-0338 EA 6", 150 LB, Black Malleable Iron Square Head Plug.....	359.53	41.18
<i>For Work In Restricted Working Space, Add</i>	18.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0339 125 LB Black Cast Iron Screwed Flanges <small>(23 21 13 23-0014)</small>		
<small>Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.</small>		
23 21 13 23-0340 EA 3/4", 125 LB, Black Cast Iron Flange.....	203.12	54.19
<i>For Work In Restricted Working Space, Add</i>		
	24.39	
23 21 13 23-0341 EA 1", 125 LB, Black Cast Iron Flange.....	169.34	61.24
<i>For Work In Restricted Working Space, Add</i>		
	27.56	
23 21 13 23-0342 EA 1-1/4", 125 LB, Black Cast Iron Flange.....	187.77	63.41
<i>For Work In Restricted Working Space, Add</i>		
	28.52	
23 21 13 23-0343 EA 1-1/2", 125 LB, Black Cast Iron Flange.....	189.09	68.97
<i>For Work In Restricted Working Space, Add</i>		
	31.03	
23 21 13 23-0344 EA 2", 125 LB, Black Cast Iron Flange.....	193.44	71.94
<i>For Work In Restricted Working Space, Add</i>		
	32.39	
23 21 13 23-0345 EA 2-1/2", 125 LB, Black Cast Iron Flange.....	224.86	83.32
<i>For Work In Restricted Working Space, Add</i>		
	37.46	
23 21 13 23-0346 EA 3", 125 LB, Black Cast Iron Flange.....	287.29	105.68
<i>For Work In Restricted Working Space, Add</i>		
	47.54	
23 21 13 23-0347 EA 4", 125 LB, Black Cast Iron Flange.....	368.00	129.64
<i>For Work In Restricted Working Space, Add</i>		
	58.31	
23 21 13 23-0348 EA 5", 125 LB, Black Cast Iron Flange.....	476.68	154.42
<i>For Work In Restricted Working Space, Add</i>		
	69.43	
23 21 13 23-0349 EA 6", 125 LB, Black Cast Iron Flange.....	543.27	177.26
<i>For Work In Restricted Working Space, Add</i>		
	79.73	
23 21 13 23-0350 150 LB, Black Malleable Iron Flanges <small>(23 21 13 23-0014)</small>		
<small>Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.</small>		
23 21 13 23-0351 EA 1/2", 150 LB, Black Malleable Iron Flange.....	101.19	49.45
<i>For Work In Restricted Working Space, Add</i>		
	22.27	
23 21 13 23-0352 EA 3/4", 150 LB, Black Malleable Iron Flange.....	110.33	54.19
<i>For Work In Restricted Working Space, Add</i>		
	24.39	
23 21 13 23-0353 EA 1", 150 LB, Black Malleable Iron Flange.....	129.57	61.24
<i>For Work In Restricted Working Space, Add</i>		
	27.55	
23 21 13 23-0354 EA 1-1/4", 150 LB, Black Malleable Iron Flange.....	135.41	63.41
<i>For Work In Restricted Working Space, Add</i>		
	28.52	
23 21 13 23-0355 EA 1-1/2", 150 LB, Black Malleable Iron Flange.....	147.43	68.97
<i>For Work In Restricted Working Space, Add</i>		
	31.03	
23 21 13 23-0356 EA 2", 150 LB, Black Malleable Iron Flange.....	165.33	71.94
<i>For Work In Restricted Working Space, Add</i>		
	32.38	
23 21 13 23-0357 EA 2-1/2", 150 LB, Black Malleable Iron Flange.....	214.85	83.32
<i>For Work In Restricted Working Space, Add</i>		
	37.46	
23 21 13 23-0358 EA 3", 150 LB, Black Malleable Iron Flange.....	272.17	105.68
<i>For Work In Restricted Working Space, Add</i>		
	47.53	
23 21 13 23-0359 EA 4", 150 LB, Black Malleable Iron Flange.....	387.55	129.64
<i>For Work In Restricted Working Space, Add</i>		
	58.30	
23 21 13 23-0360 Cut And Thread Existing In-Place Black Steel Pipe <small>(23 21 13 23-0014)</small>		
<small>Note: For use when connecting pipe to an existing in-place system.</small>		
23 21 13 23-0361 EA 1/2", Cut And Thread Existing In Place Black Steel Pipe.....	44.15	
<i>For Work In Restricted Working Space, Add</i>		
	13.25	
23 21 13 23-0362 EA 3/4", Cut And Thread Existing In Place Black Steel Pipe.....	48.56	
<i>For Work In Restricted Working Space, Add</i>		
	14.57	
23 21 13 23-0363 EA 1", Cut And Thread Existing In Place Black Steel Pipe.....	52.98	
<i>For Work In Restricted Working Space, Add</i>		
	15.89	
23 21 13 23-0364 EA 1-1/4", Cut And Thread Existing In Place Black Steel Pipe.....	57.39	
<i>For Work In Restricted Working Space, Add</i>		
	17.22	
23 21 13 23-0365 EA 1-1/2", Cut And Thread Existing In Place Black Steel Pipe.....	60.33	
<i>For Work In Restricted Working Space, Add</i>		
	18.10	
23 21 13 23-0366 EA 2", Cut And Thread Existing In Place Black Steel Pipe.....	63.28	
<i>For Work In Restricted Working Space, Add</i>		
	18.98	
23 21 13 23-0367 EA 2-1/2", Cut And Thread Existing In Place Black Steel Pipe.....	66.23	
<i>For Work In Restricted Working Space, Add</i>		
	19.87	
23 21 13 23-0368 EA 3", Cut And Thread Existing In Place Black Steel Pipe.....	69.16	
<i>For Work In Restricted Working Space, Add</i>		
	20.75	
23 21 13 23-0369 EA 4", Cut And Thread Existing In Place Black Steel Pipe.....	72.11	
<i>For Work In Restricted Working Space, Add</i>		
	21.63	
23 21 13 23-0370 EA 6", Cut And Thread Existing In Place Black Steel Pipe.....	77.99	
<i>For Work In Restricted Working Space, Add</i>		
	23.40	
23 21 13 23-0371 EA 8", Cut And Thread Existing In Place Black Steel Pipe.....	83.88	
<i>For Work In Restricted Working Space, Add</i>		
	25.16	
23 21 13 23-0372 EA 10", Cut And Thread Existing In Place Black Steel Pipe.....	91.24	
<i>For Work In Restricted Working Space, Add</i>		
	27.37	
23 21 13 23-0373 EA 12", Cut And Thread Existing In Place Black Steel Pipe.....	97.12	
<i>For Work In Restricted Working Space, Add</i>		
	29.14	
23 21 13 23-0374 Welded Black Steel Pipe <small>(23 21 13 23)</small>		
23 21 13 23-0375 Welded Plain End Black Steel Pipe Assemblies <small>(23 21 13 23-0374)</small>		
<small>Note: ASTM A-53 pipe and A-234 WPB fittings. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0376 LF 3/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	31.09	10.28
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	7.52	
23 21 13 23-0377 LF 1" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	34.83	10.97
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	8.42	
23 21 13 23-0378 LF 1-1/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	41.60	11.65
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	9.66	
23 21 13 23-0379 LF 1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	44.62	11.65
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	10.10	
23 21 13 23-0380 LF 2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	51.24	11.65
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	11.69	
23 21 13 23-0381 LF 2-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	59.36	11.65
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	13.55	
23 21 13 23-0382 LF 3" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	68.59	11.38
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	14.30	
23 21 13 23-0383 LF 4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	86.77	13.29
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	16.49	
23 21 13 23-0384 LF 6" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	116.75	19.81
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	18.98	
23 21 13 23-0385 LF 8" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	176.71	24.60
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	28.16	
23 21 13 23-0386 LF 10" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	233.94	30.75
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	33.59	
23 21 13 23-0387 LF 12" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	293.32	37.14
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	38.81	
23 21 13 23-0388 LF 14" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	320.32	48.47
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	43.30	
23 21 13 23-0389 LF 16" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	369.85	61.51
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	48.38	
23 21 13 23-0390 LF 18" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	467.34	76.14
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	53.09	
23 21 13 23-0391 LF 20" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	587.37	94.10
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	60.77	
23 21 13 23-0392 LF 24" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	718.60	106.64
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	66.81	
23 21 13 23-0393 Welded Black Steel Pipe And Fittings <small>(23 21 13 23-0374)</small>		
Note: ASTM A-53 pipe and A-234 WPB fittings. Excludes hangers or fittings.		
23 21 13 23-0394 Welded Plain End Black Steel Piping <small>(23 21 13 23-0393)</small>		
Note: ASTM A-53		
23 21 13 23-0395 LF 3/4" Schedule 40, Welded Plain End Black Steel Pipe	13.71	5.48
<i>For Schedule 80 Pipe, Add</i>	2.19	
<i>For Schedule A-106 Pipe, Add</i>	0.33	
<i>For Work In Restricted Working Space, Add</i>	3.29	
23 21 13 23-0396 LF 1" Schedule 40, Welded Plain End Black Steel Pipe	17.35	6.86
<i>For Schedule 80 Pipe, Add</i>	2.78	
<i>For Schedule A-106 Pipe, Add</i>	0.44	
<i>For Work In Restricted Working Space, Add</i>	4.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0397 LF 1-1/4" Schedule 40, Welded Plain End Black Steel Pipe	21.78	8.22
<i>For Schedule 80 Pipe, Add</i>	3.53	
<i>For Schedule A-106 Pipe, Add</i>	0.64	
<i>For Work In Restricted Working Space, Add</i>	4.93	
23 21 13 23-0398 LF 1-1/2" Schedule 40, Welded Plain End Black Steel Pipe	26.28	9.60
<i>For Schedule 80 Pipe, Add</i>	4.30	
<i>For Schedule A-106 Pipe, Add</i>	0.85	
<i>For Work In Restricted Working Space, Add</i>	5.76	
23 21 13 23-0399 LF 2" Schedule 40, Welded Plain End Black Steel Pipe	31.23	11.38
<i>For Schedule 80 Pipe, Add</i>	5.11	
<i>For Schedule A-106 Pipe, Add</i>	1.02	
<i>For Work In Restricted Working Space, Add</i>	6.83	
23 21 13 23-0400 LF 2-1/2" Schedule 40, Welded Plain End Black Steel Pipe	35.67	12.88
<i>For Schedule 80 Pipe, Add</i>	7.97	
<i>For Schedule A-106 Pipe, Add</i>	1.19	
<i>For Work In Restricted Working Space, Add</i>	7.73	
23 21 13 23-0401 LF 3" Schedule 40, Welded Plain End Black Steel Pipe	43.40	13.85
<i>For Schedule 80 Pipe, Add</i>	10.34	
<i>For Schedule A-106 Pipe, Add</i>	1.89	
<i>For Work In Restricted Working Space, Add</i>	8.31	
23 21 13 23-0402 LF 4" Schedule 40, Welded Plain End Black Steel Pipe	59.45	17.14
<i>For Schedule 80 Pipe, Add</i>	14.81	
<i>For Schedule A-106 Pipe, Add</i>	3.02	
<i>For Work In Restricted Working Space, Add</i>	10.28	
23 21 13 23-0403 LF 6" Schedule 40, Welded Plain End Black Steel Pipe	84.70	27.76
<i>For Schedule 80 Pipe, Add</i>	22.21	
<i>For Schedule A-106 Pipe, Add</i>	5.06	
<i>For Work In Restricted Working Space, Add</i>	12.75	
23 21 13 23-0404 LF 8" Schedule 40, Welded Plain End Black Steel Pipe	116.52	26.45
<i>For Schedule 80 Pipe, Add</i>	31.53	
<i>For Schedule A-106 Pipe, Add</i>	7.64	
<i>For Schedule 30 Pipe, Deduct</i>	-18.02	
<i>For Work In Restricted Working Space, Add</i>	15.87	
23 21 13 23-0405 LF 10" Schedule 40, Welded Plain End Black Steel Pipe	153.78	31.86
<i>For Schedule 80 Pipe, Add</i>	42.67	
<i>For Schedule A-106 Pipe, Add</i>	10.81	
<i>For Schedule 30 Pipe, Deduct</i>	-24.38	
<i>For Work In Restricted Working Space, Add</i>	19.12	
23 21 13 23-0406 LF 12" Schedule 40, Welded Plain End Black Steel Pipe	196.11	38.50
<i>For Schedule 80 Pipe, Add</i>	55.16	
<i>For Schedule A-106 Pipe, Add</i>	14.29	
<i>For Schedule 30 Pipe, Deduct</i>	-31.52	
<i>For Work In Restricted Working Space, Add</i>	23.10	
23 21 13 23-0407 LF 14" Schedule 40, Welded Plain End Black Steel Pipe	189.79	40.59
<i>For Schedule 80 Pipe, Add</i>	52.22	
<i>For Schedule A-106 Pipe, Add</i>	13.03	
<i>For Schedule 30 Pipe, Deduct</i>	-29.84	
<i>For Schedule 20 Pipe, Deduct</i>	-54.25	
<i>For Work In Restricted Working Space, Add</i>	24.35	
23 21 13 23-0408 LF 16" Schedule 40, Welded Plain End Black Steel Pipe	208.73	43.66
<i>For Schedule 80 Pipe, Add</i>	57.77	
<i>For Schedule A-106 Pipe, Add</i>	14.57	
<i>For Schedule 30 Pipe, Deduct</i>	-33.01	
<i>For Schedule 20 Pipe, Deduct</i>	-59.96	
<i>For Work In Restricted Working Space, Add</i>	26.20	
23 21 13 23-0409 LF 18" Schedule 40, Welded Plain End Black Steel Pipe	262.72	47.23
<i>For Schedule 80 Pipe, Add</i>	75.42	
<i>For Schedule A-106 Pipe, Add</i>	20.19	
<i>For Schedule 30 Pipe, Deduct</i>	-43.10	
<i>For Schedule 20 Pipe, Deduct</i>	-77.78	
<i>For Work In Restricted Working Space, Add</i>	28.34	
23 21 13 23-0410 LF 20" Schedule 40, Welded Plain End Black Steel Pipe	310.71	56.59
<i>For Schedule 80 Pipe, Add</i>	88.95	
<i>For Schedule A-106 Pipe, Add</i>	23.71	
<i>For Work In Restricted Working Space, Add</i>	33.95	
23 21 13 23-0411 LF 24" Schedule 40, Welded Plain End Black Steel Pipe	385.35	65.07
<i>For Schedule 80 Pipe, Add</i>	112.10	
<i>For Schedule A-106 Pipe, Add</i>	30.63	
<i>For Work In Restricted Working Space, Add</i>	39.04	
23 21 13 23-0412 Welded Plain End Black Steel 90 Degree Elbows <small>(23 21 13 23-0393)</small>		
23 21 13 23-0413 EA 3/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	138.31	77.98
<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	29.22	
<i>For Work In Restricted Working Space, Add</i>	35.06	
23 21 13 23-0414 EA 1" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	144.43	82.04
<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	30.42	
<i>For Work In Restricted Working Space, Add</i>	36.89	
23 21 13 23-0415 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	161.65	93.48
<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	33.77	
<i>For Work In Restricted Working Space, Add</i>	42.06	
23 21 13 23-0416 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	172.72	100.86
<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	35.93	
<i>For Work In Restricted Working Space, Add</i>	45.38	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0417 EA 2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	218.22 44.81 59.03	131.25
23 21 13 23-0418 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	274.56 56.54 73.79	164.09
23 21 13 23-0419 EA 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	311.94 64.42 83.33	185.33
23 21 13 23-0420 EA 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	536.61 110.57 144.03	320.22
23 21 13 23-0421 EA 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	931.33 196.20 237.71	528.43
23 21 13 23-0422 EA 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,257.31 272.26 299.82	666.56
23 21 13 23-0423 EA 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,615.72 364.79 342.65	761.89
23 21 13 23-0424 EA 12" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,181.08 497.41 448.33	996.83
23 21 13 23-0425 EA 14" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,695.89 623.28 529.95	1,178.25
23 21 13 23-0426 EA 16" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,334.88 783.87 618.83	1,375.92
23 21 13 23-0427 EA 18" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,937.40 939.71 690.04	1,534.22
23 21 13 23-0428 EA 20" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,985.54 1,224.86 773.73	1,720.21
23 21 13 23-0429 EA 24" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,810.06 1,463.18 799.52	1,777.65
23 21 13 23-0430 Welded Plain End Black Steel Reducing 90 Degree Elbows (23 21 13 23-0393)		
23 21 13 23-0431 EA 4" x 3" 90 Standard Weight, Welded Plain End Black Steel Reducing 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	713.47 163.54 144.29	320.76
23 21 13 23-0432 EA 6" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,238.07 289.17 234.99	522.41
23 21 13 23-0433 EA 6" x 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,316.05 312.57 234.99	522.41
23 21 13 23-0434 EA 8" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,958.73 482.68 299.82	666.56
23 21 13 23-0435 EA 8" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,144.64 538.46 299.82	666.56
23 21 13 23-0436 EA 10" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,675.59 682.75 342.65	761.89
23 21 13 23-0437 EA 10" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,675.59 682.75 342.65	761.89
23 21 13 23-0438 EA 12" x 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,369.90 1,151.07 456.87	1,015.76
23 21 13 23-0439 EA 12" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,369.90 1,151.07 456.87	1,015.76
23 21 13 23-0440 EA 12" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,875.61 1,302.78 456.87	1,015.76
23 21 13 23-0441 Welded Plain End Black Steel 45 Degree Elbows (23 21 13 23-0393)		
23 21 13 23-0442 EA 3/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	133.54 27.83 34.96	77.72
23 21 13 23-0443 EA 1" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	137.65 28.63 36.19	80.46
23 21 13 23-0444 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	155.48 32.11 41.54	92.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0445 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	166.43 34.24 44.82	99.65
23 21 13 23-0446 EA 2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	210.30 42.80 57.98	128.85
23 21 13 23-0447 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	262.46 53.26 72.79	161.89
23 21 13 23-0448 EA 3" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	302.67 61.64 83.31	185.19
23 21 13 23-0449 EA 4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	521.22 105.97 143.99	320.08
23 21 13 23-0450 EA 6" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	892.90 184.77 237.43	527.89
23 21 13 23-0451 EA 8" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,187.71 251.38 299.82	666.56
23 21 13 23-0452 EA 10" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,487.94 326.45 342.65	761.89
23 21 13 23-0453 EA 12" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,993.01 441.28 447.50	994.98
23 21 13 23-0454 EA 14" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,447.44 548.50 530.66	1,179.85
23 21 13 23-0455 EA 16" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,989.47 680.47 618.19	1,374.44
23 21 13 23-0456 EA 18" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,492.93 806.64 689.24	1,532.38
23 21 13 23-0457 EA 20" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,336.16 1,030.04 773.73	1,720.21
23 21 13 23-0458 EA 24" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,961.38 1,208.58 799.52	1,777.65
23 21 13 23-0459 Welded Plain End Black Steel Tee (23 21 13 23-0393)		
23 21 13 23-0460 EA 3/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	270.73 58.19 65.80	146.26
23 21 13 23-0461 EA 1" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	270.66 58.18 65.78	146.26
23 21 13 23-0462 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	305.88 66.15 73.17	162.71
23 21 13 23-0463 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	336.12 72.05 82.25	182.86
23 21 13 23-0464 EA 2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	420.83 87.82 109.80	244.13
23 21 13 23-0465 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	479.34 100.62 123.38	274.30
23 21 13 23-0466 EA 3" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	574.34 119.91 149.69	333.10
23 21 13 23-0467 EA 4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	826.33 172.15 216.44	481.29
23 21 13 23-0468 EA 6" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,382.85 289.70 357.59	795.05
23 21 13 23-0469 EA 8" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,876.31 402.99 456.87	1,015.76
23 21 13 23-0470 EA 10" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,369.28 524.23 533.02	1,185.02
23 21 13 23-0471 EA 12" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,185.58 715.82 685.31	1,523.65
23 21 13 23-0472 EA 14" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,114.07 954.39 799.52	1,777.65

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0473 EA 16" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,949.84 1,149.15 959.43	2,133.13
23 21 13 23-0474 EA 18" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,414.84 1,551.34 1,066.03	2,370.16
23 21 13 23-0475 EA 20" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,415.26 2,104.83 1,199.28	2,666.47
23 21 13 23-0476 EA 24" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,693.48 2,456.00 1,291.54	2,871.58
23 21 13 23-0477 Welded Plain End Black Steel Reducing Tees (23 21 13 23-0393)		
23 21 13 23-0478 EA 3/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	263.89 56.86 63.74	141.74
23 21 13 23-0479 EA 1" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	270.66 58.18 65.78	146.26
23 21 13 23-0480 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	302.59 65.17 73.17	162.71
23 21 13 23-0481 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	332.83 71.06 82.25	182.86
23 21 13 23-0482 EA 2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	428.23 90.03 109.84	244.13
23 21 13 23-0483 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	479.50 100.65 123.42	274.43
23 21 13 23-0484 EA 3" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	574.69 120.02 149.69	333.10
23 21 13 23-0485 EA 4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	826.81 172.29 216.44	481.29
23 21 13 23-0486 EA 6" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,383.68 289.95 357.59	795.05
23 21 13 23-0487 EA 8" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,877.91 403.47 456.87	1,015.76
23 21 13 23-0488 EA 10" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,371.99 525.04 533.02	1,185.02
23 21 13 23-0489 EA 12" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,189.68 717.05 685.31	1,523.65
23 21 13 23-0490 EA 14" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,120.66 956.36 799.52	1,777.65
23 21 13 23-0491 EA 16" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,957.81 1,151.54 959.43	2,133.13
23 21 13 23-0492 EA 18" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,427.88 1,555.25 1,066.03	2,370.16
23 21 13 23-0493 EA 20" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,541.88 2,142.81 1,199.28	2,666.47
23 21 13 23-0494 EA 24" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,259.10 2,625.69 1,291.54	2,871.58
23 21 13 23-0495 Welded Plain End Black Steel Eccentric Reducers (23 21 13 23-0393)		
23 21 13 23-0496 EA 1" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	246.41 59.89 40.09	89.14
23 21 13 23-0497 EA 1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	259.42 62.43 44.00	97.82
23 21 13 23-0498 EA 1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	256.01 61.76 42.97	95.54
23 21 13 23-0499 EA 1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	275.18 65.50 48.72	108.33
23 21 13 23-0500 EA 1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	265.58 63.63 45.84	101.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0501 EA 1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	262.17 62.96 44.82	99.65
23 21 13 23-0502 EA 2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	262.26 58.31 58.18	129.35
23 21 13 23-0503 EA 2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	298.41 69.81 56.33	125.24
23 21 13 23-0504 EA 2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	288.81 67.94 53.45	118.85
23 21 13 23-0505 EA 2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	325.94 71.88 74.01	164.55
23 21 13 23-0506 EA 2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	314.23 71.03 66.40	147.63
23 21 13 23-0507 EA 2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	383.20 92.37 64.55	143.52
23 21 13 23-0508 EA 3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	363.67 80.02 83.08	184.64
23 21 13 23-0509 EA 3" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	369.81 81.87 83.08	184.64
23 21 13 23-0510 EA 3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	382.79 85.76 83.08	184.64
23 21 13 23-0511 EA 4" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	594.37 127.81 144.29	320.76
23 21 13 23-0512 EA 4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	600.50 129.65 144.29	320.76
23 21 13 23-0513 EA 4" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	618.96 135.19 144.29	320.76
23 21 13 23-0514 EA 6" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,016.91 222.83 234.99	522.41
23 21 13 23-0515 EA 6" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,149.41 262.58 234.99	522.41
23 21 13 23-0516 EA 8" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,489.80 321.78 357.60	795.05
23 21 13 23-0517 EA 8" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,736.36 395.75 357.60	795.05
23 21 13 23-0518 EA 10" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,760.79 384.31 411.23	914.31
23 21 13 23-0519 EA 10" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,057.23 473.24 411.23	914.31
23 21 13 23-0520 EA 10" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,447.24 590.24 -344.47 411.23	914.31
23 21 13 23-0521 EA 12" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,128.59 478.98 456.00	1,013.80
23 21 13 23-0522 EA 12" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,474.88 582.86 456.00	1,013.80
23 21 13 23-0523 EA 12" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3,060.24 758.47 -492.88 456.00	1,013.80
23 21 13 23-0524 EA 12" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,118.76 476.03 -191.60 456.00	1,013.80
23 21 13 23-0525 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,844.98 666.94 533.01	1,185.02
23 21 13 23-0526 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,027.34 721.65 533.01	1,185.02
23 21 13 23-0527 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,845.49 1,267.09 533.01	1,185.02

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0528 EA 16" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,632.61 879.91 599.64	1,333.24
23 21 13 23-0529 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,169.49 1,040.97 599.64	1,333.24
23 21 13 23-0530 EA 16" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4,378.49 1,103.67 -761.50 599.64	1,333.24
23 21 13 23-0531 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,732.90 1,809.99 599.64	1,333.24
23 21 13 23-0532 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,904.48 2,161.47 599.64	1,333.24
23 21 13 23-0533 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,227.52 1,328.40 685.31	1,523.65
23 21 13 23-0534 EA 18" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,812.09 603.77 -168.88 685.31	1,523.65
23 21 13 23-0535 EA 18" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5,509.62 1,413.03 -1,032.09 685.31	1,523.65
23 21 13 23-0536 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,925.58 1,537.82 685.31	1,523.65
23 21 13 23-0537 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,442.14 2,592.79 685.31	1,523.65
23 21 13 23-0538 EA 20" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,275.66 1,611.89 -1,182.90 773.73	1,720.21
23 21 13 23-0539 EA 20" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,266.11 1,609.03 -1,179.84 773.73	1,720.21
23 21 13 23-0540 EA 20" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	10,918.24 3,004.67 -2,668.52 773.73	1,720.21
23 21 13 23-0541 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,784.26 3,564.47 773.73	1,720.21
23 21 13 23-0542 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	15,583.38 4,404.21 773.73	1,720.21
23 21 13 23-0543 EA 24" x 20" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	7,511.87 1,973.73 -1,550.97 799.52	1,777.65
23 21 13 23-0544 EA 24" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8,075.85 2,142.92 -1,731.45 799.52	1,777.65
23 21 13 23-0545 EA 24" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	10,696.15 2,929.01 -2,569.94 799.52	1,777.65
23 21 13 23-0546 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	15,572.30 4,391.86 799.52	1,777.65
23 21 13 23-0547 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	19,228.53 5,488.73 799.52	1,777.65
23 21 13 23-0548 Welded Plain End Black Steel Concentric Reducers (23 21 13 23-0393)		
23 21 13 23-0549 EA 1" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	216.89 51.03 40.09	89.14
23 21 13 23-0550 EA 1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	229.90 53.57 44.00	97.82
23 21 13 23-0551 EA 1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	226.49 52.91 42.97	95.54
23 21 13 23-0552 EA 1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	245.66 56.64 48.72	108.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0553 EA 1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	236.06 54.77 45.84	101.93
23 21 13 23-0554 EA 1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	232.65 54.11 44.82	99.65
23 21 13 23-0555 EA 2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	247.21 53.80 58.18	129.35
23 21 13 23-0556 EA 2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	241.04 52.60 56.33	125.24
23 21 13 23-0557 EA 2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	251.94 56.87 53.45	118.85
23 21 13 23-0558 EA 2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	315.02 68.60 74.01	164.55
23 21 13 23-0559 EA 2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	308.09 69.19 66.40	147.63
23 21 13 23-0560 EA 2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	331.28 76.79 64.55	143.52
23 21 13 23-0561 EA 3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	332.25 70.60 83.08	184.64
23 21 13 23-0562 EA 3" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	336.35 71.83 83.08	184.64
23 21 13 23-0563 EA 3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	345.24 74.50 83.08	184.64
23 21 13 23-0564 EA 4" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	552.02 115.10 144.29	320.76
23 21 13 23-0565 EA 4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	567.73 119.82 144.29	320.76
23 21 13 23-0566 EA 4" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	567.73 119.82 144.29	320.76
23 21 13 23-0567 EA 6" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	932.24 197.42 234.99	522.41
23 21 13 23-0568 EA 6" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	963.64 206.84 234.99	522.41
23 21 13 23-0569 EA 8" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,387.34 291.04 357.60	795.05
23 21 13 23-0570 EA 8" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,443.36 307.85 357.60	795.05
23 21 13 23-0571 EA 10" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,749.87 381.03 411.23	914.31
23 21 13 23-0572 EA 10" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,726.65 374.06 411.23	914.31
23 21 13 23-0573 EA 10" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,018.99 461.77 411.23	914.31
23 21 13 23-0574 EA 12" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,988.57 436.97 456.00	1,013.80
23 21 13 23-0575 EA 12" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,058.76 458.03 456.00	1,013.80
23 21 13 23-0576 EA 12" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,084.18 465.65 456.00	1,013.80
23 21 13 23-0577 EA 12" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,829.37 689.21 456.00	1,013.80
23 21 13 23-0578 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,481.60 557.93 533.01	1,185.02
23 21 13 23-0579 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,741.83 635.99 533.01	1,185.02
23 21 13 23-0580 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,967.91 703.82 533.01	1,185.02

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0581	EA		14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	3,841.67	1,185.02
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	965.95	
			<i>For Work In Restricted Working Space, Add</i>	533.01	
23 21 13 23-0582	EA		16" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	3,232.36	1,333.24
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	759.83	
			<i>For Work In Restricted Working Space, Add</i>	599.64	
23 21 13 23-0583	EA		16" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	3,232.36	1,333.24
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	759.83	
			<i>For Work In Restricted Working Space, Add</i>	599.64	
23 21 13 23-0584	EA		16" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	3,362.14	1,333.24
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	798.77	
			<i>For Work In Restricted Working Space, Add</i>	599.64	
23 21 13 23-0585	EA		16" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	3,793.12	1,333.24
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	928.06	
			<i>For Work In Restricted Working Space, Add</i>	599.64	
23 21 13 23-0586	EA		16" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	5,578.05	1,333.24
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	1,463.54	
			<i>For Work In Restricted Working Space, Add</i>	599.64	
23 21 13 23-0587	EA		18" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	3,631.97	1,523.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	849.73	
			<i>For Work In Restricted Working Space, Add</i>	685.31	
23 21 13 23-0588	EA		18" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	3,964.61	1,523.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	949.53	
			<i>For Work In Restricted Working Space, Add</i>	685.31	
23 21 13 23-0589	EA		18" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	4,103.95	1,523.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	991.33	
			<i>For Work In Restricted Working Space, Add</i>	685.31	
23 21 13 23-0590	EA		18" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	4,483.01	1,523.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	1,105.05	
			<i>For Work In Restricted Working Space, Add</i>	685.31	
23 21 13 23-0591	EA		18" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	8,839.25	1,523.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	2,411.92	
			<i>For Work In Restricted Working Space, Add</i>	685.31	
23 21 13 23-0592	EA		20" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	4,891.84	1,720.21
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	1,196.75	
			<i>For Work In Restricted Working Space, Add</i>	773.73	
23 21 13 23-0593	EA		20" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	4,891.84	1,720.21
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	1,196.75	
			<i>For Work In Restricted Working Space, Add</i>	773.73	
23 21 13 23-0594	EA		20" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	4,986.79	1,720.21
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	1,225.23	
			<i>For Work In Restricted Working Space, Add</i>	773.73	
23 21 13 23-0595	EA		20" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	5,548.93	1,720.21
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	1,393.87	
			<i>For Work In Restricted Working Space, Add</i>	773.73	
23 21 13 23-0596	EA		20" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	6,527.01	1,720.21
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	1,687.30	
			<i>For Work In Restricted Working Space, Add</i>	773.73	
23 21 13 23-0597	EA		24" x 20" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	5,281.10	1,777.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	1,304.50	
			<i>For Work In Restricted Working Space, Add</i>	799.52	
23 21 13 23-0598	EA		24" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	5,340.51	1,777.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	1,322.32	
			<i>For Work In Restricted Working Space, Add</i>	799.52	
23 21 13 23-0599	EA		24" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	5,456.62	1,777.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	1,357.15	
			<i>For Work In Restricted Working Space, Add</i>	799.52	
23 21 13 23-0600	EA		24" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	8,145.03	1,777.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	2,163.68	
			<i>For Work In Restricted Working Space, Add</i>	799.52	
23 21 13 23-0601	EA		24" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	8,675.75	1,777.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	2,322.89	
			<i>For Work In Restricted Working Space, Add</i>	799.52	
23 21 13 23-0602			Welded Plain End Black Steel Caps <small>(23 21 13 23-0393)</small>		
23 21 13 23-0603	EA		1" Standard Weight, Welded Plain End Black Steel Cap	79.44	45.78
			<i>For Schedule 80 Fittings, Add</i>	15.26	
			<i>For Work In Restricted Working Space, Add</i>	20.56	
23 21 13 23-0604	EA		1-1/4" Standard Weight, Welded Plain End Black Steel Cap	86.97	50.31
			<i>For Schedule 80 Fittings, Add</i>	16.67	
			<i>For Work In Restricted Working Space, Add</i>	22.62	
23 21 13 23-0605	EA		1-1/2" Standard Weight, Welded Plain End Black Steel Cap	90.39	52.09
			<i>For Schedule 80 Fittings, Add</i>	17.35	
			<i>For Work In Restricted Working Space, Add</i>	23.44	
23 21 13 23-0606	EA		2" Standard Weight, Welded Plain End Black Steel Cap	112.34	66.75
			<i>For Schedule 80 Fittings, Add</i>	21.19	
			<i>For Work In Restricted Working Space, Add</i>	30.02	
23 21 13 23-0607	EA		2-1/2" Standard Weight, Welded Plain End Black Steel Cap	132.90	80.46
			<i>For Schedule 80 Fittings, Add</i>	24.79	
			<i>For Work In Restricted Working Space, Add</i>	36.19	
23 21 13 23-0608	EA		3" Standard Weight, Welded Plain End Black Steel Cap	156.88	92.81
			<i>For Schedule 80 Fittings, Add</i>	29.67	
			<i>For Work In Restricted Working Space, Add</i>	41.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0609 EA 4" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	264.05 49.15 72.15	160.38
23 21 13 23-0610 EA 6" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	442.06 82.95 119.20	264.97
23 21 13 23-0611 EA 8" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	624.03 117.60 167.06	371.49
23 21 13 23-0612 EA 10" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	820.77 158.36 210.89	468.94
23 21 13 23-0613 EA 12" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	891.04 174.34 223.12	496.07
23 21 13 23-0614 EA 14" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,165.26 238.53 266.51	592.51
23 21 13 23-0615 EA 16" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,353.28 277.03 309.49	688.08
23 21 13 23-0616 EA 18" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,512.10 310.86 342.65	761.89
23 21 13 23-0617 150 LB, Welded Plain End Black Steel Neck Flanges <small>(23 21 13 23-0393)</small> Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21 13 23-0618 EA 2", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	192.23 42.36 46.49	103.36
23 21 13 23-0619 EA 2-1/2", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	230.64 46.39 58.01	128.99
23 21 13 23-0620 EA 3", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	258.40 49.33 66.33	147.49
23 21 13 23-0621 EA 4", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	339.20 63.90 87.50	194.52
23 21 13 23-0622 EA 6", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	515.34 97.63 132.66	294.99
23 21 13 23-0623 EA 8", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	546.73 125.56 129.65	288.32
23 21 13 23-0624 EA 10", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	709.42 174.07 162.62	361.50
23 21 13 23-0625 EA 12", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	859.06 235.41 184.51	410.22
23 21 13 23-0626 EA 14", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,114.21 337.42 223.12	496.07
23 21 13 23-0627 EA 16", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,443.16 495.92 259.31	576.51
23 21 13 23-0628 EA 18", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,772.67 664.24 290.74	646.39
23 21 13 23-0629 EA 20", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,247.77 841.57 369.01	820.43
23 21 13 23-0630 EA 24", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,541.06 985.89 399.76	888.82
23 21 13 23-0631 150 LB, Welded Black Steel Slip-On Flanges <small>(23 21 13 23-0393)</small> Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21 13 23-0632 EA 2", 150 LB, Welded Black Steel Slip-On Flanges <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	144.70 32.15 37.01	103.36
23 21 13 23-0633 EA 2-1/2", 150 LB, Welded Black Steel Slip-On Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	178.17 40.47 45.24	128.99
23 21 13 23-0634 EA 3", 150 LB, Welded Black Steel Slip-On Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	210.43 47.72 53.46	147.49
23 21 13 23-0635 EA 4", 150 LB, Welded Black Steel Slip-On Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	277.00 64.04 69.91	194.52

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0636 EA 6", 150 LB, Welded Black Steel Slip-On Flange	410.37	294.99
For 300 LB Rating, Add	96.89	
For Work In Restricted Working Space, Add	102.81	
23 21 13 23-0637 EA 8", 150 LB, Welded Black Steel Slip-On Flange	496.57	288.32
For 300 LB Rating, Add	133.99	
For Work In Restricted Working Space, Add	118.08	
23 21 13 23-0638 EA 10", 150 LB, Welded Black Steel Slip-On Flange	669.75	361.50
For 300 LB Rating, Add	211.63	
For Work In Restricted Working Space, Add	147.60	
23 21 13 23-0639 EA 12", 150 LB, Welded Black Steel Slip-On Flange	870.84	410.22
For 300 LB Rating, Add	314.38	
For Work In Restricted Working Space, Add	177.12	
23 21 13 23-0640 EA 14", 150 LB, Welded Black Steel Slip-On Flange	1,098.54	496.07
For 300 LB Rating, Add	441.07	
For Work In Restricted Working Space, Add	206.65	
23 21 13 23-0641 EA 16", 150 LB, Welded Black Steel Slip-On Flange	1,314.26	576.51
For 300 LB Rating, Add	576.55	
For Work In Restricted Working Space, Add	228.79	
23 21 13 23-0642 EA 18", 150 LB, Welded Black Steel Slip-On Flange	1,454.95	646.39
For 300 LB Rating, Add	644.50	
For Work In Restricted Working Space, Add	250.93	
23 21 13 23-0643 EA 20", 150 LB, Welded Black Steel Slip-On Flange	1,613.28	820.43
For 300 LB Rating, Add	728.32	
For Work In Restricted Working Space, Add	273.07	
23 21 13 23-0644 EA 24", 150 LB, Welded Black Steel Slip-On Flange	1,847.77	888.82
For 300 LB Rating, Add	822.02	
For Work In Restricted Working Space, Add	317.35	
23 21 13 23-0645 150 LB, Forged Steel Blind Flanges (23 21 13 23-0393)		
23 21 13 23-0646 EA 2", 150 LB, Forged Steel Blind Flange	94.63	36.80
For 300 LB Rating, Add	24.55	
For 600 LB Rating, Add	61.51	
For Work In Restricted Working Space, Add	22.08	
23 21 13 23-0647 EA 2-1/2", 150 LB, Forged Steel Blind Flange	122.43	44.16
For 300 LB Rating, Add	36.56	
For 600 LB Rating, Add	95.11	
For Work In Restricted Working Space, Add	26.50	
23 21 13 23-0648 EA 3", 150 LB, Forged Steel Blind Flange	153.04	58.89
For 300 LB Rating, Add	40.59	
For 600 LB Rating, Add	102.34	
For Work In Restricted Working Space, Add	35.33	
23 21 13 23-0649 EA 4", 150 LB, Forged Steel Blind Flange	195.84	73.60
For 300 LB Rating, Add	54.36	
For 600 LB Rating, Add	138.79	
For Work In Restricted Working Space, Add	44.16	
23 21 13 23-0650 EA 6", 150 LB, Forged Steel Blind Flange	265.06	95.69
For 300 LB Rating, Add	79.05	
For 600 LB Rating, Add	205.56	
For Work In Restricted Working Space, Add	57.41	
23 21 13 23-0651 EA 8", 150 LB, Forged Steel Blind Flange	337.69	110.41
For 300 LB Rating, Add	116.69	
For 600 LB Rating, Add	313.63	
For Work In Restricted Working Space, Add	66.24	
23 21 13 23-0652 EA 10", 150 LB, Forged Steel Blind Flange	493.22	132.48
For 300 LB Rating, Add	210.42	
For 600 LB Rating, Add	587.55	
For Work In Restricted Working Space, Add	79.49	
23 21 13 23-0653 EA 12", 150 LB, Forged Steel Blind Flange	632.19	154.57
For 300 LB Rating, Add	290.91	
For 600 LB Rating, Add	821.71	
For Work In Restricted Working Space, Add	92.74	
23 21 13 23-0654 EA 14", 150 LB, Forged Steel Blind Flange	1,018.46	176.65
For 300 LB Rating, Add	569.23	
For Work In Restricted Working Space, Add	105.99	
23 21 13 23-0655 EA 16", 150 LB, Forged Steel Blind Flange	1,098.58	198.73
For 300 LB Rating, Add	602.64	
For Work In Restricted Working Space, Add	119.24	
23 21 13 23-0656 EA 18", 150 LB, Forged Steel Blind Flange	1,247.30	242.89
For 300 LB Rating, Add	660.22	
For Work In Restricted Working Space, Add	145.74	
23 21 13 23-0657 EA 20", 150 LB, Forged Steel Blind Flange	1,572.59	264.97
For 300 LB Rating, Add	889.76	
For Work In Restricted Working Space, Add	158.99	
23 21 13 23-0658 EA 24", 150 LB, Forged Steel Blind Flange	2,110.99	309.13
For 300 LB Rating, Add	1,259.09	
For Work In Restricted Working Space, Add	185.48	
23 21 13 23-0659 3,000 LB, Forge Steel Thread-O-Lets (23 21 13 23-0393)		
23 21 13 23-0660 EA 1/2", 3,000 LB, Forge Steel Thread-O-Let	95.16	
For Weld-O-Lets, Add	4.40	
For Sock-O-Lets, Add	36.60	
For Work In Restricted Working Space, Add	25.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0661 EA 3/4", 3,000 LB, Forge Steel Thread-O-Let	100.82	
<i>For Weld-O-Lets, Add</i>	5.17	
<i>For Sock-O-Lets, Add</i>	38.83	
<i>For Work In Restricted Working Space, Add</i>	27.14	
23 21 13 23-0662 EA 1", 3,000 LB, Forge Steel Thread-O-Let	107.54	
<i>For Weld-O-Lets, Add</i>	5.80	
<i>For Sock-O-Lets, Add</i>	41.44	
<i>For Work In Restricted Working Space, Add</i>	28.79	
23 21 13 23-0663 EA 1-1/4", 3,000 LB, Forge Steel Thread-O-Let	119.24	
<i>For Weld-O-Lets, Add</i>	8.22	
<i>For Sock-O-Lets, Add</i>	46.13	
<i>For Work In Restricted Working Space, Add</i>	30.84	
23 21 13 23-0664 EA 1-1/2", 3,000 LB, Forge Steel Thread-O-Let	132.95	
<i>For Weld-O-Lets, Add</i>	8.22	
<i>For Sock-O-Lets, Add</i>	51.34	
<i>For Work In Restricted Working Space, Add</i>	34.96	
23 21 13 23-0665 EA 2", 3,000 LB, Forge Steel Thread-O-Let	172.85	
<i>For Weld-O-Lets, Add</i>	10.28	
<i>For Sock-O-Lets, Add</i>	66.71	
<i>For Work In Restricted Working Space, Add</i>	45.69	
23 21 13 23-0666 EA 2-1/2", 3,000 LB, Forge Steel Thread-O-Let	270.40	
<i>For Weld-O-Lets, Add</i>	37.29	
<i>For Sock-O-Lets, Add</i>	106.48	
<i>For Work In Restricted Working Space, Add</i>	58.75	
23 21 13 23-0667 EA 3", 3,000 LB, Forge Steel Thread-O-Let	349.16	
<i>For Weld-O-Lets, Add</i>	37.51	
<i>For Sock-O-Lets, Add</i>	136.43	
<i>For Work In Restricted Working Space, Add</i>	82.25	
23 21 13 23-0668 EA 4", 3,000 LB, Forge Steel Thread-O-Let	489.53	
<i>For Weld-O-Lets, Add</i>	73.42	
<i>For Sock-O-Lets, Add</i>	193.36	
<i>For Work In Restricted Working Space, Add</i>	102.81	
23 21 13 23-0669 Class 150 Flange, Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0670 EA 3/4" To 1-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	11.18	
Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	3.13	
<i>For Hot Dip Galvanized, Add</i>	4.47	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	7.83	
23 21 13 23-0671 EA 2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	14.11	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	3.95	
<i>For Hot Dip Galvanized, Add</i>	5.64	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	9.88	
23 21 13 23-0672 EA 2-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	14.29	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	4.00	
<i>For Hot Dip Galvanized, Add</i>	5.72	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	10.00	
23 21 13 23-0673 EA 3" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	14.38	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	4.03	
<i>For Hot Dip Galvanized, Add</i>	5.75	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	10.07	
23 21 13 23-0674 EA 4" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	31.59	
Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	8.85	
<i>For Hot Dip Galvanized, Add</i>	12.64	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	22.11	
23 21 13 23-0675 EA 5" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	45.04	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	12.61	
<i>For Hot Dip Galvanized, Add</i>	18.02	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	31.53	
23 21 13 23-0676 EA 6" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	48.79	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	13.66	
<i>For Hot Dip Galvanized, Add</i>	19.52	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	34.15	
23 21 13 23-0677 EA 8" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	53.70	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	15.04	
<i>For Hot Dip Galvanized, Add</i>	21.48	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	37.59	
23 21 13 23-0678 EA 10" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	117.91	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	33.01	
<i>For Hot Dip Galvanized, Add</i>	47.16	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	82.54	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0679	EA	12" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	120.71	
			Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	33.80	
			For Hot Dip Galvanized, Add	48.28	
			For Advanced Fluoropolymer (Blue Coating), Add	84.50	
23 21	13 23-0680	EA	14" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	135.44	
			Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
			For Zinc Plated, Add	37.92	
			For Hot Dip Galvanized, Add	54.18	
			For Advanced Fluoropolymer (Blue Coating), Add	94.81	
23 21	13 23-0681	EA	16" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	223.83	
			Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
			For Zinc Plated, Add	62.67	
			For Hot Dip Galvanized, Add	89.53	
			For Advanced Fluoropolymer (Blue Coating), Add	156.68	
23 21	13 23-0682	EA	18" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	321.66	
			Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	90.06	
			For Hot Dip Galvanized, Add	128.66	
			For Advanced Fluoropolymer (Blue Coating), Add	225.16	
23 21	13 23-0683	EA	20" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	406.50	
			Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	113.82	
			For Hot Dip Galvanized, Add	162.60	
			For Advanced Fluoropolymer (Blue Coating), Add	284.55	
23 21	13 23-0684	EA	24" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	578.34	
			Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	161.94	
			For Hot Dip Galvanized, Add	231.34	
			For Advanced Fluoropolymer (Blue Coating), Add	404.84	
23 21	13 23-0685	EA	30" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	912.62	
			Note: Includes rubber gasket, and twenty-eight (28) 1-1/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	255.53	
			For Hot Dip Galvanized, Add	365.05	
			For Advanced Fluoropolymer (Blue Coating), Add	638.83	
23 21	13 23-0686	EA	36" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,297.30	
			Note: Includes rubber gasket, and thirty-two (32) 1-1/2" diameter bolts with washers and nut.		
			For Zinc Plated, Add	363.24	
			For Hot Dip Galvanized, Add	518.92	
			For Advanced Fluoropolymer (Blue Coating), Add	908.11	
23 21	13 23-0687		Class 300 Flange, Steel Bolt And Gasket Sets (23 21 13 23-0393)		
			Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21	13 23-0688	EA	3/4" To 1-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	18.61	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	5.21	
			For Hot Dip Galvanized, Add	7.44	
			For Advanced Fluoropolymer (Blue Coating), Add	13.03	
23 21	13 23-0689	EA	2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	33.06	
			Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	9.26	
			For Hot Dip Galvanized, Add	13.22	
			For Advanced Fluoropolymer (Blue Coating), Add	23.14	
23 21	13 23-0690	EA	2-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	50.76	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	14.21	
			For Hot Dip Galvanized, Add	20.30	
			For Advanced Fluoropolymer (Blue Coating), Add	35.53	
23 21	13 23-0691	EA	3" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	55.16	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	15.44	
			For Hot Dip Galvanized, Add	22.06	
			For Advanced Fluoropolymer (Blue Coating), Add	38.61	
23 21	13 23-0692	EA	4" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	56.38	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	15.79	
			For Hot Dip Galvanized, Add	22.55	
			For Advanced Fluoropolymer (Blue Coating), Add	39.47	
23 21	13 23-0693	EA	5" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	62.08	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	17.38	
			For Hot Dip Galvanized, Add	24.83	
			For Advanced Fluoropolymer (Blue Coating), Add	43.46	
23 21	13 23-0694	EA	6" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	87.87	
			Note: Includes rubber gasket, and twelve (12) 3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	24.60	
			For Hot Dip Galvanized, Add	35.15	
			For Advanced Fluoropolymer (Blue Coating), Add	61.51	
23 21	13 23-0695	EA	8" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	135.86	
			Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	38.04	
			For Hot Dip Galvanized, Add	54.34	
			For Advanced Fluoropolymer (Blue Coating), Add	95.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0696 EA 10" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	245.83	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	68.83	
For Hot Dip Galvanized, Add	98.33	
For Advanced Fluoropolymer (Blue Coating), Add	172.08	
23 21 13 23-0697 EA 12" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	353.20	
Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	98.90	
For Hot Dip Galvanized, Add	141.28	
For Advanced Fluoropolymer (Blue Coating), Add	247.24	
23 21 13 23-0698 EA 14" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	482.38	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	135.07	
For Hot Dip Galvanized, Add	192.95	
For Advanced Fluoropolymer (Blue Coating), Add	337.67	
23 21 13 23-0699 EA 16" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	664.08	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	185.94	
For Hot Dip Galvanized, Add	265.63	
For Advanced Fluoropolymer (Blue Coating), Add	464.86	
23 21 13 23-0700 EA 18" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	853.94	
Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	239.10	
For Hot Dip Galvanized, Add	341.58	
For Advanced Fluoropolymer (Blue Coating), Add	597.76	
23 21 13 23-0701 EA 20" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	907.30	
Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	254.04	
For Hot Dip Galvanized, Add	362.92	
For Advanced Fluoropolymer (Blue Coating), Add	635.11	
23 21 13 23-0702 EA 24" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,152.42	
Note: Includes rubber gasket, and twenty-four (24) 1-1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	322.68	
For Hot Dip Galvanized, Add	460.97	
For Advanced Fluoropolymer (Blue Coating), Add	806.69	
23 21 13 23-0703 EA 30" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,814.68	
Note: Includes rubber gasket, and twenty-eight (28) 1-3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	508.11	
For Hot Dip Galvanized, Add	725.87	
For Advanced Fluoropolymer (Blue Coating), Add	1,270.28	
23 21 13 23-0704 EA 36" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	2,735.11	
Note: Includes rubber gasket, and thirty-two (32) 2" diameter bolts with washers and nut.		
For Zinc Plated, Add	765.83	
For Hot Dip Galvanized, Add	1,094.04	
For Advanced Fluoropolymer (Blue Coating), Add	1,914.58	
23 21 13 23-0705 Class 150 Flange, Stainless Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0706 EA 3/4" To 1-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	11.18	
Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.		
23 21 13 23-0707 EA 2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	39.72	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21 13 23-0708 EA 2-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	39.81	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21 13 23-0709 EA 3" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	39.91	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21 13 23-0710 EA 4" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	83.88	
Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
23 21 13 23-0711 EA 5" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	106.48	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21 13 23-0712 EA 6" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	120.17	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21 13 23-0713 EA 8" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	121.14	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21 13 23-0714 EA 10" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	311.29	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
23 21 13 23-0715 EA 12" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	313.11	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
23 21 13 23-0716 EA 14" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	473.04	
Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
23 21 13 23-0717 EA 16" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	629.95	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
23 21 13 23-0718 EA 18" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	1,632.03	
Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
23 21 13 23-0719 EA 20" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	1,891.36	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
23 21 13 23-0720 EA 24" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	2,184.08	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
23 21 13 23-0721 150 LB, Rubber Flange Gasket Replacement <small>(23 21 13 23-0393)</small>		
Note: Includes unbolting, removal of old gaskets, new 150 LB rubber gasket and rebolting.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0722	EA	1/2", 150 LB, Rubber Flange Gasket Replacement	41.27	
			<i>For 300 LB Rating Gasket Set, Add</i>	0.21	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	4.72	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	5.43	
			<i>For Work In Restricted Working Space, Add</i>	12.20	
23 21	13 23-0723	EA	3/4", 150 LB, Rubber Flange Gasket Replacement	44.19	
			<i>For 300 LB Rating Gasket Set, Add</i>	0.28	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	6.26	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	7.21	
			<i>For Work In Restricted Working Space, Add</i>	13.01	
23 21	13 23-0724	EA	1", 150 LB, Rubber Flange Gasket Replacement	48.86	
			<i>For 300 LB Rating Gasket Set, Add</i>	0.50	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	10.98	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	12.64	
			<i>For Work In Restricted Working Space, Add</i>	14.23	
23 21	13 23-0725	EA	1-1/4", 150 LB, Rubber Flange Gasket Replacement	53.13	
			<i>For 300 LB Rating Gasket Set, Add</i>	0.57	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	12.52	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	14.42	
			<i>For Work In Restricted Working Space, Add</i>	15.45	
23 21	13 23-0726	EA	1-1/2", 150 LB, Rubber Flange Gasket Replacement	58.96	
			<i>For 300 LB Rating Gasket Set, Add</i>	0.71	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	15.69	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	18.07	
			<i>For Work In Restricted Working Space, Add</i>	17.08	
23 21	13 23-0727	EA	2", 150 LB, Rubber Flange Gasket Replacement	65.19	
			<i>For 300 LB Rating Gasket Set, Add</i>	0.99	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	21.95	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	25.28	
			<i>For Work In Restricted Working Space, Add</i>	18.71	
23 21	13 23-0728	EA	2-1/2", 150 LB, Rubber Flange Gasket Replacement	77.04	
			<i>For 300 LB Rating Gasket Set, Add</i>	1.35	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	29.76	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	34.27	
			<i>For Work In Restricted Working Space, Add</i>	21.96	
23 21	13 23-0729	EA	3", 150 LB, Rubber Flange Gasket Replacement	81.72	
			<i>For 300 LB Rating Gasket Set, Add</i>	1.56	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	34.48	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	39.69	
			<i>For Work In Restricted Working Space, Add</i>	23.18	
23 21	13 23-0730	EA	4", 150 LB, Rubber Flange Gasket Replacement	108.95	
			<i>For 300 LB Rating Gasket Set, Add</i>	2.55	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	56.35	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	64.88	
			<i>For Work In Restricted Working Space, Add</i>	30.50	
23 21	13 23-0731	EA	5", 150 LB, Rubber Flange Gasket Replacement	126.03	
			<i>For 300 LB Rating Gasket Set, Add</i>	2.84	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	62.61	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	72.09	
			<i>For Work In Restricted Working Space, Add</i>	35.38	
23 21	13 23-0732	EA	6", 150 LB, Rubber Flange Gasket Replacement	144.73	
			<i>For 300 LB Rating Gasket Set, Add</i>	3.69	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	81.47	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	93.81	
			<i>For Work In Restricted Working Space, Add</i>	40.26	
23 21	13 23-0733	EA	8", 150 LB, Rubber Flange Gasket Replacement	178.06	
			<i>For 300 LB Rating Gasket Set, Add</i>	5.39	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	119.04	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	137.06	
			<i>For Work In Restricted Working Space, Add</i>	48.80	
23 21	13 23-0734	EA	10", 150 LB, Rubber Flange Gasket Replacement	195.38	
			<i>For 300 LB Rating Gasket Set, Add</i>	7.66	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	169.13	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	194.73	
			<i>For Work In Restricted Working Space, Add</i>	52.05	
23 21	13 23-0735	EA	12", 150 LB, Rubber Flange Gasket Replacement	224.51	
			<i>For 300 LB Rating Gasket Set, Add</i>	9.79	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	216.13	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	248.84	
			<i>For Work In Restricted Working Space, Add</i>	58.97	
23 21	13 23-0736	EA	14", 150 LB, Rubber Flange Gasket Replacement	236.76	
			<i>For 300 LB Rating Gasket Set, Add</i>	11.70	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	258.41	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	297.53	
			<i>For Work In Restricted Working Space, Add</i>	61.00	
23 21	13 23-0737	EA	16", 150 LB, Rubber Flange Gasket Replacement	308.37	
			<i>For 300 LB Rating Gasket Set, Add</i>	13.05	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	288.17	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	331.79	
			<i>For Work In Restricted Working Space, Add</i>	81.33	
23 21	13 23-0738	EA	18", 150 LB, Rubber Flange Gasket Replacement	335.75	
			<i>For 300 LB Rating Gasket Set, Add</i>	13.62	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	300.77	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	346.30	
			<i>For Work In Restricted Working Space, Add</i>	89.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0739 EA 20", 150 LB. Rubber Flange Gasket Replacement.....	403.62	
<i>For 300 LB Rating Gasket Set, Add</i>	14.61	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	322.65	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	371.49	
<i>For Work In Restricted Working Space, Add</i>	108.56	
23 21 13 23-0740 Cut And Prepare For Welding Existing In-Place Black Steel Pipe <small>(23 21 13 23-0393)</small>		
Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0741 EA 1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	29.43	
<i>For Work In Restricted Working Space, Add</i>	8.83	
23 21 13 23-0742 EA 3/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	31.79	
<i>For Work In Restricted Working Space, Add</i>	9.54	
23 21 13 23-0743 EA 1", Cut And Prepare For Welding Existing In Place Black Steel Pipe	35.76	
<i>For Work In Restricted Working Space, Add</i>	10.73	
23 21 13 23-0744 EA 1-1/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	37.52	
<i>For Work In Restricted Working Space, Add</i>	11.26	
23 21 13 23-0745 EA 1-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	39.73	
<i>For Work In Restricted Working Space, Add</i>	11.92	
23 21 13 23-0746 EA 2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	42.67	
<i>For Work In Restricted Working Space, Add</i>	12.80	
23 21 13 23-0747 EA 2-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	45.63	
<i>For Work In Restricted Working Space, Add</i>	13.69	
23 21 13 23-0748 EA 3", Cut And Prepare For Welding Existing In Place Black Steel Pipe	50.03	
<i>For Work In Restricted Working Space, Add</i>	15.01	
23 21 13 23-0749 EA 4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	54.45	
<i>For Work In Restricted Working Space, Add</i>	16.34	
23 21 13 23-0750 EA 6", Cut And Prepare For Welding Existing In Place Black Steel Pipe	58.86	
<i>For Work In Restricted Working Space, Add</i>	17.66	
23 21 13 23-0751 EA 8", Cut And Prepare For Welding Existing In Place Black Steel Pipe	63.28	
<i>For Work In Restricted Working Space, Add</i>	18.98	
23 21 13 23-0752 EA 10", Cut And Prepare For Welding Existing In Place Black Steel Pipe	69.17	
<i>For Work In Restricted Working Space, Add</i>	20.75	
23 21 13 23-0753 EA 12", Cut And Prepare For Welding Existing In Place Black Steel Pipe	75.05	
<i>For Work In Restricted Working Space, Add</i>	22.52	
23 21 13 23-0754 EA 14", Cut And Prepare For Welding Existing In Place Black Steel Pipe	80.94	
<i>For Work In Restricted Working Space, Add</i>	24.28	
23 21 13 23-0755 EA 16", Cut And Prepare For Welding Existing In Place Black Steel Pipe	86.83	
<i>For Work In Restricted Working Space, Add</i>	26.05	
23 21 13 23-0756 EA 18", Cut And Prepare For Welding Existing In Place Black Steel Pipe	91.24	
<i>For Work In Restricted Working Space, Add</i>	27.37	
23 21 13 23-0757 EA 20", Cut And Prepare For Welding Existing In Place Black Steel Pipe	95.65	
<i>For Work In Restricted Working Space, Add</i>	28.70	
23 21 13 23-0758 EA 24", Cut And Prepare For Welding Existing In Place Black Steel Pipe	101.54	
<i>For Work In Restricted Working Space, Add</i>	30.46	
23 21 13 23-0759 Welded Plain End Electric Resistance Black Steel Pipe <small>(23 21 13 23-0393)</small>		
Note: ASTM A-135.		
23 21 13 23-0760 LF 2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	30.45	15.08
<i>For Work In Restricted Working Space, Add</i>	7.40	
23 21 13 23-0761 LF 2-1/2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	33.53	16.44
<i>For Work In Restricted Working Space, Add</i>	7.40	
23 21 13 23-0762 LF 3" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	35.10	16.18
<i>For Work In Restricted Working Space, Add</i>	7.26	
23 21 13 23-0763 LF 4" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	44.00	20.57
<i>For Work In Restricted Working Space, Add</i>	9.25	
23 21 13 23-0764 LF 6" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	71.13	30.43
<i>For Work In Restricted Working Space, Add</i>	13.68	
23 21 13 23-0765 LF 8.322" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	86.47	33.58
<i>For Work In Restricted Working Space, Add</i>	15.13	
23 21 13 23-0766 LF 10.365" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	116.27	41.82
<i>For Work In Restricted Working Space, Add</i>	18.82	
23 21 13 23-0767 LF 12.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	141.07	50.43
<i>For Work In Restricted Working Space, Add</i>	22.68	
23 21 13 23-0768 LF 14.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	180.30	65.44
<i>For Work In Restricted Working Space, Add</i>	29.44	
23 21 13 23-0769 Flanged Steel Fittings <small>(23 21 13 23)</small>		
See CSI section 23 21 13 23-0394 for steel pipe, 23 21 13 23-0617 for welded neck flange ends.		
23 21 13 23-0770 Flanged Steel Fittings, Standard Weight <small>(23 21 13 23-0769)</small>		
Note: Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets. See CSI section 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21 13 23-0771 Flanged Steel, 90 Degree Elbows <small>(23 21 13 23-0770)</small>		
23 21 13 23-0772 EA 2" Standard Weight, Flanged Steel, 90 Degree Elbow	587.48	63.27
<i>For Galvanized Fittings, Add</i>	394.10	
<i>For Extra Heavy Weight Fittings, Add</i>	591.16	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0773 EA 2-1/2" Standard Weight, Flanged Steel, 90 Degree Elbow	655.24	70.46
For Galvanized Fittings, Add	439.65	
For Extra Heavy Weight Fittings, Add	659.47	
23 21 13 23-0774 EA 3" Standard Weight, Flanged Steel, 90 Degree Elbow	651.23	77.77
For Galvanized Fittings, Add	427.77	
For Extra Heavy Weight Fittings, Add	641.65	
23 21 13 23-0775 EA 4" Standard Weight, Flanged Steel, 90 Degree Elbow	826.16	90.37
For Galvanized Fittings, Add	552.54	
For Extra Heavy Weight Fittings, Add	828.80	
23 21 13 23-0776 EA 5" Standard Weight, Flanged Steel, 90 Degree Elbow	1,154.32	101.21
For Galvanized Fittings, Add	802.06	
For Extra Heavy Weight Fittings, Add	1,203.10	
23 21 13 23-0777 EA 6" Standard Weight, Flanged Steel, 90 Degree Elbow	1,220.79	117.47
For Galvanized Fittings, Add	835.73	
For Extra Heavy Weight Fittings, Add	1,253.59	
23 21 13 23-0778 EA 8" Standard Weight, Flanged Steel, 90 Degree Elbow	1,548.44	130.07
For Galvanized Fittings, Add	1,082.67	
For Extra Heavy Weight Fittings, Add	1,624.01	
23 21 13 23-0779 Flanged Steel, Reducing 90 Degree Elbows (23 21 13 23-0770)		
23 21 13 23-0780 EA 2-1/2" x 2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,095.41	66.94
For Galvanized Fittings, Add	796.12	
For Extra Heavy Weight Fittings, Add	1,194.18	
23 21 13 23-0781 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,140.91	74.11
For Galvanized Fittings, Add	823.85	
For Extra Heavy Weight Fittings, Add	1,235.77	
23 21 13 23-0782 EA 4" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,420.70	84.00
For Galvanized Fittings, Add	1,035.75	
For Extra Heavy Weight Fittings, Add	1,553.63	
23 21 13 23-0783 EA 5" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,758.06	89.43
For Galvanized Fittings, Add	1,299.14	
For Extra Heavy Weight Fittings, Add	1,948.72	
23 21 13 23-0784 EA 6" x 4" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	2,002.54	103.92
For Galvanized Fittings, Add	1,477.38	
For Extra Heavy Weight Fittings, Add	2,216.08	
23 21 13 23-0785 EA 8" x 6" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	2,792.33	123.83
For Galvanized Fittings, Add	2,085.37	
For Extra Heavy Weight Fittings, Add	3,128.05	
23 21 13 23-0786 Flanged Steel, 45 Degree Elbows (23 21 13 23-0770)		
23 21 13 23-0787 EA 2" Standard Weight, Flanged Steel, 45 Degree Elbow	765.71	63.27
For Galvanized Fittings, Add	536.69	
For Extra Heavy Weight Fittings, Add	805.03	
23 21 13 23-0788 EA 2-1/2" Standard Weight, Flanged Steel, 45 Degree Elbow	798.82	70.46
For Galvanized Fittings, Add	554.51	
For Extra Heavy Weight Fittings, Add	831.77	
23 21 13 23-0789 EA 3" Standard Weight, Flanged Steel, 45 Degree Elbow	829.47	77.77
For Galvanized Fittings, Add	570.36	
For Extra Heavy Weight Fittings, Add	855.54	
23 21 13 23-0790 EA 4" Standard Weight, Flanged Steel, 45 Degree Elbow	1,034.10	90.37
For Galvanized Fittings, Add	718.89	
For Extra Heavy Weight Fittings, Add	1,078.33	
23 21 13 23-0791 EA 5" Standard Weight, Flanged Steel, 45 Degree Elbow	1,490.99	101.21
For Galvanized Fittings, Add	1,071.40	
For Extra Heavy Weight Fittings, Add	1,607.10	
23 21 13 23-0792 EA 6" Standard Weight, Flanged Steel, 45 Degree Elbow	1,453.49	117.47
For Galvanized Fittings, Add	1,021.89	
For Extra Heavy Weight Fittings, Add	1,532.83	
23 21 13 23-0793 EA 8" Standard Weight, Flanged Steel, 45 Degree Elbow	1,714.15	130.07
For Galvanized Fittings, Add	1,215.24	
For Extra Heavy Weight Fittings, Add	1,822.86	
23 21 13 23-0794 Flanged Steel, Tees (23 21 13 23-0770)		
23 21 13 23-0795 EA 2" Standard Weight, Flanged Steel, Tee.....	753.71	94.84
For Galvanized Fittings, Add	489.16	
For Extra Heavy Weight Fittings, Add	733.74	
23 21 13 23-0796 EA 2-1/2" Standard Weight, Flanged Steel, Tee.....	972.95	105.68
For Galvanized Fittings, Add	651.55	
For Extra Heavy Weight Fittings, Add	977.33	
23 21 13 23-0797 EA 3" Standard Weight, Flanged Steel, Tee.....	887.74	116.52
For Galvanized Fittings, Add	570.37	
For Extra Heavy Weight Fittings, Add	855.55	
23 21 13 23-0798 EA 4" Standard Weight, Flanged Steel, Tee.....	1,267.67	135.62
For Galvanized Fittings, Add	851.55	
For Extra Heavy Weight Fittings, Add	1,277.33	
23 21 13 23-0799 EA 5" Standard Weight, Flanged Steel, Tee.....	1,882.17	151.88
For Galvanized Fittings, Add	1,323.64	
For Extra Heavy Weight Fittings, Add	1,985.46	
23 21 13 23-0800 EA 6" Standard Weight, Flanged Steel, Tee.....	2,296.90	176.27
For Galvanized Fittings, Add	1,626.17	
For Extra Heavy Weight Fittings, Add	2,439.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0801 EA 8" Standard Weight, Flanged Steel, Tee..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,543.35 1,789.72 2,684.58	204.18
23 21 13 23-0802 Flanged Steel, Reducing Tees (23 21 13 23-0770)		
23 21 13 23-0803 EA 2-1/2" Standard Weight, Flanged Steel, Reducing Tee..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,190.34 829.79 1,244.69	102.16
23 21 13 23-0804 EA 3" Standard Weight, Flanged Steel, Reducing Tee..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,374.93 964.46 1,446.68	113.00
23 21 13 23-0805 EA 4" Standard Weight, Flanged Steel, Reducing Tee..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,364.62 1,736.70 2,605.04	129.25
23 21 13 23-0806 EA 5" Standard Weight, Flanged Steel, Reducing Tee..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,556.07 1,869.26 2,803.90	146.46
23 21 13 23-0807 EA 6" Standard Weight, Flanged Steel, Reducing Tee..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	3,212.77 2,368.62 3,552.92	168.14
23 21 13 23-0808 EA 8" Standard Weight, Flanged Steel, Reducing Tee..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	4,011.27 2,982.49 4,473.73	188.87
23 21 13 23-0809 Flanged Steel, Concentric Reducers (23 21 13 23-0770)		
23 21 13 23-0810 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Concentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,126.06 811.97 1,217.95	74.11
23 21 13 23-0811 EA 4" x 3" Standard Weight, Flanged Steel, Concentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,279.59 922.86 1,384.30	84.00
23 21 13 23-0812 EA 5" x 4" Standard Weight, Flanged Steel, Concentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,898.75 1,404.10 2,106.16	95.79
23 21 13 23-0813 EA 6" x 4" Standard Weight, Flanged Steel, Concentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,094.13 1,550.66 2,325.98	103.92
23 21 13 23-0814 EA 8" x 6" Standard Weight, Flanged Steel, Concentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,453.18 1,814.05 2,721.07	123.83
23 21 13 23-0815 Flanged Steel, Eccentric Reducers (23 21 13 23-0770)		
23 21 13 23-0816 EA 4" x 3" Standard Weight, Flanged Steel, Eccentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,217.21 872.96 1,309.44	84.00
23 21 13 23-0817 EA 5" x 4" Standard Weight, Flanged Steel, Eccentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,654.67 1,208.84 1,813.26	95.79
23 21 13 23-0818 Plain End Couplings And Fittings (23 21 13 23)		
Note: For use on standard weight steel pipe (Schedule 40), but may be used on lightwall steel or other metallic pipe such as aluminum or stainless steel.		
23 21 13 23-0819 Plain End Piping System Couplings (23 21 13 23-0818)		
23 21 13 23-0820 Plainlock Plain End Piping System Couplings (23 21 13 23-0819)		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0821 EA 1" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	178.83 33.33	8.13
23 21 13 23-0822 EA 1-1/2" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	183.57 33.33	11.24
23 21 13 23-0823 EA 2" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	189.06 33.33	14.91
23 21 13 23-0824 EA 2-1/2" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	193.74 33.33	18.02
23 21 13 23-0825 EA 3" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	229.18 39.33	21.67
23 21 13 23-0826 EA 4" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	315.83 54.49	28.86
23 21 13 23-0827 EA 6" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	530.55 92.02	47.01
23 21 13 23-0828 Roust-A-Bout Plain End Piping System Couplings (23 21 13 23-0819)		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0829 EA 1-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	215.94 49.75	11.24
23 21 13 23-0830 EA 2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	221.43 49.75	14.91

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0831 EA 2-1/2" Roust-A-Bout Plain End Piping System Coupling.....	226.13	18.15
For Galvanized Fittings, Add	49.75	
23 21 13 23-0832 EA 3" Roust-A-Bout Plain End Piping System Coupling.....	327.28	21.67
For Galvanized Fittings, Add	73.70	
23 21 13 23-0833 EA 3-1/2" Roust-A-Bout Plain End Piping System Coupling.....	379.11	25.34
For Galvanized Fittings, Add	85.29	
23 21 13 23-0834 EA 4" Roust-A-Bout Plain End Piping System Coupling.....	384.47	28.86
For Galvanized Fittings, Add	85.29	
23 21 13 23-0835 EA 5" Roust-A-Bout Plain End Piping System Coupling.....	541.60	36.18
For Galvanized Fittings, Add	121.84	
23 21 13 23-0836 EA 6" Roust-A-Bout Plain End Piping System Coupling.....	665.71	47.01
For Galvanized Fittings, Add	148.81	
23 21 13 23-0837 EA 8" Roust-A-Bout Plain End Piping System Coupling.....	1,139.56	56.09
For Galvanized Fittings, Add	263.87	
23 21 13 23-0838 EA 10" Roust-A-Bout Plain End Piping System Coupling.....	1,472.78	66.39
For Galvanized Fittings, Add	343.29	
23 21 13 23-0839 EA 12" Roust-A-Bout Plain End Piping System Coupling.....	1,840.92	78.58
For Galvanized Fittings, Add	430.76	
23 21 13 23-0840 EA 14" Roust-A-Bout Plain End Piping System Coupling.....	2,577.01	86.85
For Galvanized Fittings, Add	611.68	
23 21 13 23-0841 EA 16" Roust-A-Bout Plain End Piping System Coupling.....	3,497.87	98.23
For Galvanized Fittings, Add	837.65	
23 21 13 23-0842 Plain End Piping System Fittings (23 21 13 23-0818)		
Note: Cast ductile iron bodies.		
23 21 13 23-0843 Plain End Piping System, 90 Degree Elbows (23 21 13 23-0842)		
23 21 13 23-0844 EA 1" Plain End Piping System, 90 Degree Elbow.....	179.44	14.77
For Galvanized Fittings, Add	31.46	
23 21 13 23-0845 EA 1-1/2" Plain End Piping System, 90 Degree Elbow.....	190.83	22.36
For Galvanized Fittings, Add	31.46	
23 21 13 23-0846 EA 2" Plain End Piping System, 90 Degree Elbow.....	201.58	29.54
For Galvanized Fittings, Add	31.46	
23 21 13 23-0847 EA 2-1/2" Plain End Piping System, 90 Degree Elbow.....	211.24	36.04
For Galvanized Fittings, Add	31.46	
23 21 13 23-0848 EA 3" Plain End Piping System, 90 Degree Elbow.....	254.33	43.63
For Galvanized Fittings, Add	37.79	
23 21 13 23-0849 EA 4" Plain End Piping System, 90 Degree Elbow.....	361.73	57.45
For Galvanized Fittings, Add	55.11	
23 21 13 23-0850 EA 5" Plain End Piping System, 90 Degree Elbow.....	1,061.60	71.94
For Galvanized Fittings, Add	190.75	
23 21 13 23-0851 EA 6" Plain End Piping System, 90 Degree Elbow.....	899.51	94.16
For Galvanized Fittings, Add	151.68	
23 21 13 23-0852 EA 8" Plain End Piping System, 90 Degree Elbow.....	1,769.44	111.77
For Galvanized Fittings, Add	320.35	
23 21 13 23-0853 EA 10" Plain End Piping System, 90 Degree Elbow.....	2,208.95	130.61
For Galvanized Fittings, Add	402.63	
23 21 13 23-0854 EA 12" Plain End Piping System, 90 Degree Elbow.....	2,798.44	156.89
For Galvanized Fittings, Add	512.64	
23 21 13 23-0855 Plain End Piping System, 45 Degree Elbows (23 21 13 23-0842)		
23 21 13 23-0856 EA 1" Plain End Piping System, 45 Degree Elbow.....	179.44	14.77
For Galvanized Fittings, Add	31.46	
23 21 13 23-0857 EA 1-1/2" Plain End Piping System, 45 Degree Elbow.....	190.83	22.36
For Galvanized Fittings, Add	31.46	
23 21 13 23-0858 EA 2" Plain End Piping System, 45 Degree Elbow.....	201.58	29.54
For Galvanized Fittings, Add	31.46	
23 21 13 23-0859 EA 2-1/2" Plain End Piping System, 45 Degree Elbow.....	211.24	36.04
For Galvanized Fittings, Add	31.46	
23 21 13 23-0860 EA 3" Plain End Piping System, 45 Degree Elbow.....	254.33	43.63
For Galvanized Fittings, Add	37.79	
23 21 13 23-0861 EA 4" Plain End Piping System, 45 Degree Elbow.....	361.73	57.45
For Galvanized Fittings, Add	55.11	
23 21 13 23-0862 EA 5" Plain End Piping System, 45 Degree Elbow.....	1,061.60	71.94
For Galvanized Fittings, Add	190.75	
23 21 13 23-0863 EA 6" Plain End Piping System, 45 Degree Elbow.....	902.42	94.16
For Galvanized Fittings, Add	152.26	
23 21 13 23-0864 EA 8" Plain End Piping System, 45 Degree Elbow.....	1,047.80	111.77
For Galvanized Fittings, Add	176.02	
23 21 13 23-0865 EA 10" Plain End Piping System, 45 Degree Elbow.....	1,424.04	130.61
For Galvanized Fittings, Add	245.65	
23 21 13 23-0866 EA 12" Plain End Piping System, 45 Degree Elbow.....	1,821.96	156.89
For Galvanized Fittings, Add	317.35	
23 21 13 23-0867 Plain End Piping System, Tees (23 21 13 23-0842)		
23 21 13 23-0868 EA 1" Plain End Piping System, Tee.....	245.36	22.36
For Galvanized Fittings, Add	42.37	
23 21 13 23-0869 EA 1-1/2" Plain End Piping System, Tee.....	262.16	33.60
For Galvanized Fittings, Add	42.37	
23 21 13 23-0870 EA 2" Plain End Piping System, Tee.....	276.97	43.49
For Galvanized Fittings, Add	42.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0871 EA 2-1/2" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	291.72 42.37	53.25
23 21 13 23-0872 EA 3" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	403.02 60.97	65.44
23 21 13 23-0873 EA 4" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	550.81 84.79	84.68
23 21 13 23-0874 EA 5" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	1,097.32 186.26	110.70
23 21 13 23-0875 EA 6" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	1,357.19 229.88	138.61
23 21 13 23-0876 EA 8" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	1,845.35 318.51	168.55
23 21 13 23-0877 EA 10" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	2,726.54 486.40	196.45
23 21 13 23-0878 EA 12" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	3,642.78 657.99	235.35
23 21 13 23-0879 Plain End Piping System, Reducing Tees <small>(23 21 13 23-0842)</small>		
23 21 13 23-0880 EA 1-1/2" Plain End Piping System, Reducing Tee..... <i>For Galvanized Fittings, Add</i>	472.70 83.74	36.04
23 21 13 23-0881 EA 2" Plain End Piping System, Reducing Tee..... <i>For Galvanized Fittings, Add</i>	483.84 83.74	43.49
23 21 13 23-0882 EA 2-1/2" Plain End Piping System, Reducing Tee..... <i>For Galvanized Fittings, Add</i>	498.59 83.74	53.25
23 21 13 23-0883 EA 3" Plain End Piping System, Reducing Tee..... <i>For Galvanized Fittings, Add</i>	516.88 83.74	65.44
23 21 13 23-0884 EA 4" Plain End Piping System, Reducing Tee..... <i>For Galvanized Fittings, Add</i>	744.99 123.63	84.68
23 21 13 23-0885 EA 6" Plain End Piping System, Reducing Tee..... <i>For Galvanized Fittings, Add</i>	1,257.47 209.93	138.61
23 21 13 23-0886 EA 8" Plain End Piping System, Reducing Tee..... <i>For Galvanized Fittings, Add</i>	1,635.12 276.47	168.55
23 21 13 23-0887 EA 10" Plain End Piping System, Reducing Tee..... <i>For Galvanized Fittings, Add</i>	2,425.64 426.22	196.45
23 21 13 23-0888 EA 12" Plain End Piping System, Reducing Tee..... <i>For Galvanized Fittings, Add</i>	3,556.68 640.77	235.35
23 21 13 23-0889 Plain End Piping System, Wyes <small>(23 21 13 23-0842)</small>		
23 21 13 23-0890 EA 2" Plain End Piping System, Wye..... <i>For Galvanized Fittings, Add</i>	685.61 124.09	43.49
23 21 13 23-0891 EA 2-1/2" Plain End Piping System, Wye..... <i>For Galvanized Fittings, Add</i>	700.36 124.09	53.25
23 21 13 23-0892 EA 3" Plain End Piping System, Wye..... <i>For Galvanized Fittings, Add</i>	795.62 139.49	65.44
23 21 13 23-0893 EA 4" Plain End Piping System, Wye..... <i>For Galvanized Fittings, Add</i>	1,162.09 207.05	84.68
23 21 13 23-0894 EA 5" Plain End Piping System, Wye..... <i>For Galvanized Fittings, Add</i>	1,425.78 251.95	110.70
23 21 13 23-0895 EA 6" Plain End Piping System, Wye..... <i>For Galvanized Fittings, Add</i>	1,942.52 346.94	138.61
23 21 13 23-0896 EA 8" Plain End Piping System, Wye..... <i>For Galvanized Fittings, Add</i>	2,499.34 449.31	168.55
23 21 13 23-0897 EA 10" Plain End Piping System, Wye..... <i>For Galvanized Fittings, Add</i>	3,607.38 662.57	196.45
23 21 13 23-0898 EA 12" Plain End Piping System, Wye..... <i>For Galvanized Fittings, Add</i>	5,459.86 1,021.41	235.35
23 21 13 23-0899 Plain End Piping System, Laterals <small>(23 21 13 23-0842)</small>		
23 21 13 23-0900 EA 2" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	729.49 132.87	43.49
23 21 13 23-0901 EA 2-1/2" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	744.24 132.87	53.25
23 21 13 23-0902 EA 3" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	839.21 148.21	65.44
23 21 13 23-0903 EA 4" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	1,245.33 223.69	84.68
23 21 13 23-0904 EA 5" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	1,624.05 291.60	110.70
23 21 13 23-0905 EA 6" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	2,070.08 372.45	138.61
23 21 13 23-0906 EA 8" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	2,967.90 543.02	168.55
23 21 13 23-0907 EA 10" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	4,127.25 766.54	196.45
23 21 13 23-0908 EA 12" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	5,537.13 1,036.86	235.35
23 21 13 23-0909 Plain End Piping System, Crosses <small>(23 21 13 23-0842)</small>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0910	EA	2" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	818.96 90.17	65.17
23 21	13 23-0911	EA	2-1/2" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	841.04 90.17	79.80
23 21	13 23-0912	EA	3" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	983.94 104.58	98.23
23 21	13 23-0913	EA	4" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	1,339.68 143.67	126.95
23 21	13 23-0914	EA	5" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	1,881.56 204.06	166.11
23 21	13 23-0915	EA	6" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	2,466.34 269.45	207.29
23 21	13 23-0916	EA	8" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	3,141.77 345.68	251.06
23 21	13 23-0917	EA	10" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	4,474.81 504.37	293.47
23 21	13 23-0918	EA	12" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	6,347.28 727.25	353.08
23 21 13 23-0919 Plain End Piping System, Adapter Nipples (23 21 13 23-0842)					
Note: Plain to threaded, plain to beveled or plain to grooved.					
23 21	13 23-0920	EA	1" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	42.09 7.48	8.13
23 21	13 23-0921	EA	1-1/2" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	47.66 7.68	11.24
23 21	13 23-0922	EA	2" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	53.01 7.68	14.91
23 21	13 23-0923	EA	2-1/2" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	63.09 9.00	18.02
23 21	13 23-0924	EA	3" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	77.00 11.12	21.67
23 21	13 23-0925	EA	4" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	117.74 18.60	28.86
23 21	13 23-0926	EA	6" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	255.33 50.29	36.18
23 21 13 23-0927 Plain End Piping System, Reducing (Swaged) Nipples (23 21 13 23-0842)					
23 21	13 23-0928	EA	1-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	129.62 25.12	19.37
23 21	13 23-0929	EA	2" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	135.05 25.12	23.03
23 21	13 23-0930	EA	2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	140.53 25.12	26.69
23 21	13 23-0931	EA	2-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	139.20 25.12	25.88
23 21	13 23-0932	EA	2-1/2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	144.53 25.12	29.40
23 21	13 23-0933	EA	2-1/2" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	149.93 25.12	32.92
23 21	13 23-0934	EA	3" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	167.02 30.60	29.81
23 21	13 23-0935	EA	3" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	171.83 30.60	32.92
23 21	13 23-0936	EA	3" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	149.03 23.53	36.58
23 21	13 23-0937	EA	3" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	159.52 23.53	43.63
23 21	13 23-0938	EA	3-1/2" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	182.97 28.14	47.01
23 21	13 23-0939	EA	4" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	227.63 43.03	36.99
23 21	13 23-0940	EA	4" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	232.37 43.03	40.24
23 21	13 23-0941	EA	4" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	196.09 32.58	43.89
23 21	13 23-0942	EA	4" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	200.74 32.58	47.01
23 21	13 23-0943	EA	4" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	206.27 32.58	50.67
23 21	13 23-0944	EA	4" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	211.55 32.58	54.19
23 21	13 23-0945	EA	5" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	555.87 119.81	51.07
23 21	13 23-0946	EA	5" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	456.53 92.48	57.72
23 21	13 23-0947	EA	5" x 4" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	402.00 76.10	65.17
23 21	13 23-0948	EA	6" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	995.76 228.29	55.15
23 21	13 23-0949	EA	6" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	1,000.44 228.29	58.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0950 EA 6" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	768.18 168.85	61.92
23 21 13 23-0951 EA 6" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	773.00 168.85	65.17
23 21 13 23-0952 EA 6" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	540.66 109.43	68.70
23 21 13 23-0953 EA 6" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	545.58 109.43	71.94
23 21 13 23-0954 EA 6" x 4" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	445.62 82.99	75.88
23 21 13 23-0955 EA 6" x 5" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	505.14 95.15	83.06
23 21 13 23-0956 EA 8" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	644.28 131.97	77.64
23 21 13 23-0957 EA 8" x 4" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	655.21 131.97	84.95
23 21 13 23-0958 EA 8" x 5" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	738.78 150.13	92.27
23 21 13 23-0959 EA 8" x 6" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	827.80 168.29	103.10
23 21 13 23-0960 Plain End Piping System, Bull Plugs (23 21 13 23-0842)		
23 21 13 23-0961 EA 1" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	354.20 102.60	8.13
23 21 13 23-0962 EA 1-1/2" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	358.95 102.60	11.24
23 21 13 23-0963 EA 2" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	364.30 102.60	14.91
23 21 13 23-0964 EA 2-1/2" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	369.11 102.60	18.02
23 21 13 23-0965 EA 3" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	533.87 150.41	21.67
23 21 13 23-0966 EA 4" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	690.93 194.27	28.86
23 21 13 23-0967 EA 5" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	1,198.60 343.33	36.18
23 21 13 23-0968 EA 6" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	1,596.83 457.91	47.01
23 21 13 23-0969 EA 8" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	2,953.63 860.90	55.95
23 21 13 23-0970 EA 10" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	5,307.55 1,562.81	65.44
23 21 13 23-0971 EA 12" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	8,128.94 2,403.33	78.58
23 21 13 23-0972 Carbon Steel Piping Systems (23 21 13 23)		
23 21 13 23-0973 Class 3,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-0972)		
Note: ASTM A105		
23 21 13 23-0974 90 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-0975 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	50.33	26.82
23 21 13 23-0976 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	56.59	29.94
23 21 13 23-0977 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	71.66	33.46
23 21 13 23-0978 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	96.86	37.94
23 21 13 23-0979 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	110.66	42.68
23 21 13 23-0980 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	149.81	54.33
23 21 13 23-0981 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	294.08	80.34
23 21 13 23-0982 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	417.66	105.68
23 21 13 23-0983 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	707.93	105.09
23 21 13 23-0984 45 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-0985 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	54.83	26.82
23 21 13 23-0986 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	63.38	29.94
23 21 13 23-0987 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	73.75	33.46
23 21 13 23-0988 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	99.51	37.94
23 21 13 23-0989 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	117.00	42.68
23 21 13 23-0990 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	149.68	54.33
23 21 13 23-0991 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	332.88	80.34
23 21 13 23-0992 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	450.48	105.68
23 21 13 23-0993 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	693.73	105.09
23 21 13 23-0994 Straight Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-0995 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	61.76	33.46
23 21 13 23-0996 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	74.63	38.61
23 21 13 23-0997 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	98.02	45.66
23 21 13 23-0998 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	129.63	54.33
23 21 13 23-0999 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	156.96	64.76
23 21 13 23-1000 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	207.29	80.34

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1001 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	367.57	105.68
23 21 13 23-1002 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	502.16	125.46
23 21 13 23-1003 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	936.62	132.67
23 21 13 23-1004 Reducing Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-1005 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	62.99	33.46
23 21 13 23-1006 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	75.90	38.61
23 21 13 23-1007 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	99.54	45.66
23 21 13 23-1008 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	133.23	54.33
23 21 13 23-1009 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	161.19	64.76
23 21 13 23-1010 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	213.78	80.34
23 21 13 23-1011 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	383.00	105.68
23 21 13 23-1012 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	524.36	125.46
23 21 13 23-1013 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	857.60	132.67
23 21 13 23-1014 Straight Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-1015 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	44.80	26.82
23 21 13 23-1016 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	50.46	29.94
23 21 13 23-1017 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	58.64	33.46
23 21 13 23-1018 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	67.47	37.94
23 21 13 23-1019 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	78.40	42.68
23 21 13 23-1020 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	102.33	54.33
23 21 13 23-1021 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	173.13	80.34
23 21 13 23-1022 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	231.14	105.68
23 21 13 23-1023 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	302.47	105.09
23 21 13 23-1024 Reducing Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-1025 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	47.30	26.82
23 21 13 23-1026 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	53.21	29.94
23 21 13 23-1027 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	63.04	33.46
23 21 13 23-1028 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	72.79	37.94
23 21 13 23-1029 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	86.28	42.68
23 21 13 23-1030 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	110.76	54.33
23 21 13 23-1031 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	191.69	80.34
23 21 13 23-1032 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	268.48	105.68
23 21 13 23-1033 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	380.09	105.09
23 21 13 23-1034 Caps, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-1035 EA 1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	26.18	12.60
23 21 13 23-1036 EA 3/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	29.72	13.42
23 21 13 23-1037 EA 1" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	34.84	15.45
23 21 13 23-1038 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	40.32	16.80
23 21 13 23-1039 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	45.90	16.80
23 21 13 23-1040 EA 2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	59.54	21.54
23 21 13 23-1041 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	104.10	26.82
23 21 13 23-1042 EA 3" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	149.33	32.38
23 21 13 23-1043 EA 4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	211.11	35.96
23 21 13 23-1044 Black Cast Iron Square Head Plug (23 21 13 23-0973)		
23 21 13 23-1045 EA 1/2" Square Head Plug, Black, Cast Iron.....	17.58	10.70
23 21 13 23-1046 EA 3/4" Square Head Plug, Black, Cast Iron.....	19.97	10.70
23 21 13 23-1047 EA 1" Square Head Plug, Black, Cast Iron.....	28.71	16.25
23 21 13 23-1048 EA 1-1/4" Square Head Plug, Black, Cast Iron.....	29.19	16.25
23 21 13 23-1049 EA 1-1/2" Square Head Plug, Black, Cast Iron.....	31.17	16.25
23 21 13 23-1050 EA 2" Square Head Plug, Black, Cast Iron.....	41.32	21.54
23 21 13 23-1051 EA 2-1/2" Square Head Plug, Black, Cast Iron.....	53.10	26.82
23 21 13 23-1052 EA 3" Square Head Plug, Black, Cast Iron.....	69.36	32.38
23 21 13 23-1053 EA 4" Square Head Plug, Black, Cast Iron.....	78.41	35.96
23 21 13 23-1054 Unions, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-1055 EA 1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	76.27	33.46
23 21 13 23-1056 EA 3/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	84.68	38.61
23 21 13 23-1057 EA 1" Union, Carbon Steel, Socket Weld, 3,000 LB.....	107.56	45.66
23 21 13 23-1058 EA 1-1/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	135.39	54.33
23 21 13 23-1059 EA 1-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	163.04	64.76
23 21 13 23-1060 EA 2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	203.74	80.34
23 21 13 23-1061 EA 2-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	344.22	87.25
23 21 13 23-1062 EA 3" Union, Carbon Steel, Socket Weld, 3,000 LB.....	460.82	105.68
23 21 13 23-1063 Class 6,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-0972)		
Note: ASTM A105		
23 21 13 23-1064 90 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1065 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	55.75	26.82
23 21 13 23-1066 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	62.78	29.94
23 21 13 23-1067 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	83.07	33.46
23 21 13 23-1068 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	118.13	37.94
23 21 13 23-1069 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	135.41	42.68
23 21 13 23-1070 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	186.16	54.33
23 21 13 23-1071 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	386.31	80.34
23 21 13 23-1072 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	555.32	105.68
23 21 13 23-1073 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	1,000.26	105.09
23 21 13 23-1074 45 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1075 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	63.14	26.82
23 21 13 23-1076 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	73.83	29.94
23 21 13 23-1077 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	87.09	33.46
23 21 13 23-1078 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	123.68	37.94
23 21 13 23-1079 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	146.97	42.68
23 21 13 23-1080 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	188.36	54.33
23 21 13 23-1081 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	453.16	80.34
23 21 13 23-1082 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	615.83	105.68
23 21 13 23-1083 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	997.34	105.09
23 21 13 23-1084 Straight Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1085 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	72.49	33.46
23 21 13 23-1086 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	90.12	38.61
23 21 13 23-1087 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	125.43	45.66
23 21 13 23-1088 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	174.32	54.33
23 21 13 23-1089 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	212.38	64.76
23 21 13 23-1090 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	287.75	80.34
23 21 13 23-1091 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	561.25	105.68
23 21 13 23-1092 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	792.98	125.46
23 21 13 23-1093 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	1,619.86	132.67
23 21 13 23-1094 Reducing Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1095 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	62.99	33.46
23 21 13 23-1096 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	75.90	38.61
23 21 13 23-1097 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	99.54	45.66
23 21 13 23-1098 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	133.23	54.33
23 21 13 23-1099 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	161.19	64.76
23 21 13 23-1100 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	213.78	80.34
23 21 13 23-1101 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	383.00	105.68
23 21 13 23-1102 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	524.36	125.46
23 21 13 23-1103 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	857.60	132.67
23 21 13 23-1104 Straight Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1105 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	47.05	26.82
23 21 13 23-1106 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	53.12	29.94
23 21 13 23-1107 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	62.73	33.46
23 21 13 23-1108 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	72.63	37.94
23 21 13 23-1109 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	85.33	42.68
23 21 13 23-1110 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	112.46	54.33
23 21 13 23-1111 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	198.62	80.34
23 21 13 23-1112 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	266.28	105.68
23 21 13 23-1113 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	372.59	105.09
23 21 13 23-1114 Reducing Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1115 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	50.74	26.82
23 21 13 23-1116 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	57.17	29.94
23 21 13 23-1117 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	69.21	33.46
23 21 13 23-1118 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	80.46	37.94
23 21 13 23-1119 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	96.95	42.68
23 21 13 23-1120 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	124.86	54.33
23 21 13 23-1121 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	225.90	80.34
23 21 13 23-1122 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	321.28	105.68
23 21 13 23-1123 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	486.94	105.09
23 21 13 23-1124 Caps, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1125 EA 1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	31.12	12.60
23 21 13 23-1126 EA 3/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	36.20	13.42
23 21 13 23-1127 EA 1" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	42.67	15.45
23 21 13 23-1128 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	50.54	16.80
23 21 13 23-1129 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	59.87	16.80
23 21 13 23-1130 EA 2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	77.76	21.54
23 21 13 23-1131 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	147.03	26.82
23 21 13 23-1132 EA 3" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	216.96	32.38

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1133 EA 4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	316.55	35.96
23 21 13 23-1134 Black Cast Iron Square Head Plug (23 21 13 23-1063)		
23 21 13 23-1135 EA 1/2" Square Head Plug, Black Cast Iron.....	17.59	10.70
23 21 13 23-1136 EA 3/4" Square Head Plug, Black Cast Iron.....	19.99	10.70
23 21 13 23-1137 EA 1" Square Head Plug, Black Cast Iron.....	28.74	16.25
23 21 13 23-1138 EA 1-1/4" Square Head Plug, Black Cast Iron.....	29.22	16.25
23 21 13 23-1139 EA 1-1/2" Square Head Plug, Black Cast Iron.....	31.20	16.25
23 21 13 23-1140 EA 2" Square Head Plug, Black Cast Iron.....	41.36	21.54
23 21 13 23-1141 EA 2-1/2" Square Head Plug, Black Cast Iron.....	53.17	26.82
23 21 13 23-1142 EA 3" Square Head Plug, Black Cast Iron.....	69.47	32.38
23 21 13 23-1143 EA 4" Square Head Plug, Black Cast Iron.....	78.53	35.96
23 21 13 23-1144 Unions, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1145 EA 1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	92.23	33.46
23 21 13 23-1146 EA 3/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	101.06	38.61
23 21 13 23-1147 EA 1" Union, Carbon Steel, Socket Weld, 6,000 LB.....	131.49	45.66
23 21 13 23-1148 EA 1-1/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	168.42	54.33
23 21 13 23-1149 EA 1-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	203.35	64.76
23 21 13 23-1150 EA 2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	254.69	80.34
23 21 13 23-1151 EA 2-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	474.67	87.25
23 21 13 23-1152 EA 3" Union, Carbon Steel, Socket Weld, 6,000 LB.....	645.71	105.68
23 21 13 23-1153 Carbon Steel, Seamless Piping System (23 21 13 23-0972) Note: ASTM A106 Excludes hangers or fittings. Demolition Note applies to all pipe demolition.		
23 21 13 23-1154 Schedule 40, Carbon Steel, Seamless Piping (23 21 13 23-1153) Note: ASTM A106 Excludes hangers, elbow, tee, or reducer fittings.		
23 21 13 23-1155 LF 1/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	12.02	5.01
For Schedule 80, Add	1.62	
23 21 13 23-1156 LF 1/2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	12.32	5.42
For Schedule 80, Add	1.48	
For Schedule 160, Add	6.17	
23 21 13 23-1157 LF 3/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	13.78	5.82
For Schedule 80, Add	1.81	
For Schedule 160, Add	7.56	
23 21 13 23-1158 LF 1" ASTM A106 Carbon Steel Pipe, Schedule 40.....	14.66	6.37
For Schedule 80, Add	1.87	
For Schedule 160, Add	7.79	
23 21 13 23-1159 LF 1-1/2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	19.43	7.86
For Schedule 80, Add	2.75	
For Schedule 160, Add	11.48	
23 21 13 23-1160 LF 2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	24.34	9.48
For Schedule 80, Add	3.63	
For Schedule 160, Add	15.12	
23 21 13 23-1161 90 Degree Elbows, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1162 EA 1/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	37.31	20.60
23 21 13 23-1163 EA 1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	44.95	24.12
23 21 13 23-1164 EA 3/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	50.23	26.97
23 21 13 23-1165 EA 1" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	57.50	30.07
23 21 13 23-1166 EA 1-1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	89.51	38.48
23 21 13 23-1167 EA 2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	113.44	48.91
23 21 13 23-1168 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	39.35	20.60
23 21 13 23-1169 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	45.72	24.12
23 21 13 23-1170 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	52.76	26.97
23 21 13 23-1171 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	63.01	30.07
23 21 13 23-1172 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	102.66	38.48
23 21 13 23-1173 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	127.97	48.91
23 21 13 23-1174 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	52.88	24.12
23 21 13 23-1175 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	61.78	26.97
23 21 13 23-1176 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	72.48	30.07
23 21 13 23-1177 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	129.28	38.48
23 21 13 23-1178 EA 2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	198.57	48.91
23 21 13 23-1179 45 Degree Elbows, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1180 EA 1/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	41.63	20.60
23 21 13 23-1181 EA 1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	46.60	24.12
23 21 13 23-1182 EA 3/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	52.37	26.97
23 21 13 23-1183 EA 1" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	59.12	30.07
23 21 13 23-1184 EA 1-1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	84.25	38.48
23 21 13 23-1185 EA 2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	121.54	48.91
23 21 13 23-1186 EA 1/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	41.96	20.60
23 21 13 23-1187 EA 1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	48.48	24.12
23 21 13 23-1188 EA 3/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	54.53	26.97
23 21 13 23-1189 EA 1" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	64.75	30.07
23 21 13 23-1190 EA 1-1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	100.63	38.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1191 EA 2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	132.51	48.91
23 21 13 23-1192 EA 1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	57.82	24.12
23 21 13 23-1193 EA 3/4" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	70.70	26.97
23 21 13 23-1194 EA 1" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	75.83	30.07
23 21 13 23-1195 EA 1-1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	148.27	38.48
23 21 13 23-1196 EA 2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	199.82	48.91
23 21 13 23-1197 Straight Tees, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1198 EA 1/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	49.70	28.58
23 21 13 23-1199 EA 1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	56.59	30.07
23 21 13 23-1200 EA 3/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	67.69	34.82
23 21 13 23-1201 EA 1" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	82.89	41.06
23 21 13 23-1202 EA 1-1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	132.23	58.26
23 21 13 23-1203 EA 2" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	163.95	72.35
23 21 13 23-1204 EA 1/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	51.45	28.58
23 21 13 23-1205 EA 1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	57.73	30.07
23 21 13 23-1206 EA 3/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	71.50	34.82
23 21 13 23-1207 EA 1" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	86.15	41.06
23 21 13 23-1208 EA 1-1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	143.52	58.26
23 21 13 23-1209 EA 2" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	182.63	72.35
23 21 13 23-1210 EA 1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	66.32	30.07
23 21 13 23-1211 EA 3/4" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	80.73	34.82
23 21 13 23-1212 EA 1" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	108.97	41.06
23 21 13 23-1213 EA 1-1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	169.45	58.26
23 21 13 23-1214 EA 2" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	265.28	72.35
23 21 13 23-1215 Crosses, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1216 EA 1/4" Cross, 2,000 LB, Screwed Carbon Steel.....	74.14	36.18
23 21 13 23-1217 EA 1/2" Cross, 2,000 LB, Screwed Carbon Steel.....	87.48	40.64
23 21 13 23-1218 EA 3/4" Cross, 2,000 LB, Screwed Carbon Steel.....	93.98	43.36
23 21 13 23-1219 EA 1" Cross, 2,000 LB, Screwed Carbon Steel.....	116.16	52.30
23 21 13 23-1220 EA 1-1/2" Cross, 2,000 LB, Screwed Carbon Steel.....	200.58	73.16
23 21 13 23-1221 EA 2" Cross, 2,000 LB, Screwed Carbon Steel.....	258.59	90.37
23 21 13 23-1222 EA 1/2" Cross, 3,000 LB, Screwed Carbon Steel.....	89.63	40.64
23 21 13 23-1223 EA 3/4" Cross, 3,000 LB, Screwed Carbon Steel.....	106.32	43.36
23 21 13 23-1224 EA 1" Cross, 3,000 LB, Screwed Carbon Steel.....	126.97	52.30
23 21 13 23-1225 EA 1-1/2" Cross, 3,000 LB, Screwed Carbon Steel.....	216.15	73.16
23 21 13 23-1226 EA 2" Cross, 3,000 LB, Screwed Carbon Steel.....	287.04	90.37
23 21 13 23-1227 EA 1/2" Cross, 6,000 LB, Screwed Carbon Steel.....	129.84	40.64
23 21 13 23-1228 EA 3/4" Cross, 6,000 LB, Screwed Carbon Steel.....	216.06	43.36
23 21 13 23-1229 EA 1" Cross, 6,000 LB, Screwed Carbon Steel.....	296.06	52.30
23 21 13 23-1230 EA 1-1/2" Cross, 6,000 LB, Screwed Carbon Steel.....	467.61	73.16
23 21 13 23-1231 EA 2" Cross, 6,000 LB, Screwed Carbon Steel.....	513.14	90.37
23 21 13 23-1232 Straight Couplings, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1233 EA 1/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	34.73	20.60
23 21 13 23-1234 EA 1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	39.70	24.12
23 21 13 23-1235 EA 3/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	45.35	26.97
23 21 13 23-1236 EA 1" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	52.55	30.07
23 21 13 23-1237 EA 1-1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	76.24	38.48
23 21 13 23-1238 EA 2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	96.77	48.91
23 21 13 23-1239 EA 1/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	39.88	20.60
23 21 13 23-1240 EA 1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	42.96	24.12
23 21 13 23-1241 EA 3/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	47.86	26.97
23 21 13 23-1242 EA 1" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	55.89	30.07
23 21 13 23-1243 EA 1-1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	81.34	38.48
23 21 13 23-1244 EA 2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	115.39	48.91
23 21 13 23-1245 Reducing Couplings, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1246 EA 1/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	35.44	21.95
23 21 13 23-1247 EA 1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	41.38	24.12
23 21 13 23-1248 EA 3/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	47.93	26.97
23 21 13 23-1249 EA 1" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	56.13	30.07
23 21 13 23-1250 EA 1-1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	77.17	38.48
23 21 13 23-1251 EA 2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	101.79	48.91
23 21 13 23-1252 EA 1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	107.38	24.12
23 21 13 23-1253 EA 3/4" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	111.69	26.97
23 21 13 23-1254 EA 1" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	130.44	30.07
23 21 13 23-1255 EA 1-1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	187.09	38.48
23 21 13 23-1256 EA 2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	268.17	48.91
23 21 13 23-1257 Caps, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1258 EA 1/4" Cap, 3,000 LB, Screwed Carbon Steel.....	16.89	9.21
23 21 13 23-1259 EA 1/2" Cap, 3,000 LB, Screwed Carbon Steel.....	19.54	10.70
23 21 13 23-1260 EA 3/4" Cap, 3,000 LB, Screwed Carbon Steel.....	22.79	12.06

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1261	EA	1" Cap, 3,000 LB, Screwed Carbon Steel	27.39	13.42
23 21	13 23-1262	EA	1-1/2" Cap, 3,000 LB, Screwed Carbon Steel	37.23	17.07
23 21	13 23-1263	EA	2" Cap, 3,000 LB, Screwed Carbon Steel	50.49	21.82
23 21	13 23-1264	EA	1/4" Cap, 6,000 LB, Screwed Carbon Steel	23.08	9.21
23 21	13 23-1265	EA	1/2" Cap, 6,000 LB, Screwed Carbon Steel	23.50	10.70
23 21	13 23-1266	EA	3/4" Cap, 6,000 LB, Screwed Carbon Steel	29.25	12.06
23 21	13 23-1267	EA	1" Cap, 6,000 LB, Screwed Carbon Steel	32.10	13.42
23 21	13 23-1268	EA	1-1/2" Cap, 6,000 LB, Screwed Carbon Steel	56.44	17.07
23 21	13 23-1269	EA	2" Cap, 6,000 LB, Screwed Carbon Steel	69.21	21.82
23 21 13 23-1270 Nipples, Screwed Carbon Steel (23 21 13 23-1153)					
23 21	13 23-1271	EA	1/4" Nipple, 2" Long, Screwed Carbon Steel	21.32	12.33
23 21	13 23-1272	EA	1/2" Nipple, 2" Long, Screwed Carbon Steel	21.70	12.87
23 21	13 23-1273	EA	3/4" Nipple, 2" Long, Screwed Carbon Steel	21.54	12.87
23 21	13 23-1274	EA	1" Nipple, 2" Long, Screwed Carbon Steel	23.97	13.95
23 21	13 23-1275	EA	1-1/2" Nipple, 2" Long, Screwed Carbon Steel	27.30	15.04
23 21	13 23-1276	EA	2" Nipple, 2" Long, Screwed Carbon Steel	32.70	19.37
23 21	13 23-1277	EA	1/4" Nipple, 4" Long, Screwed Carbon Steel	22.50	12.33
23 21	13 23-1278	EA	1/2" Nipple, 4" Long, Screwed Carbon Steel	22.63	12.87
23 21	13 23-1279	EA	3/4" Nipple, 4" Long, Screwed Carbon Steel	22.60	12.87
23 21	13 23-1280	EA	1" Nipple, 4" Long, Screwed Carbon Steel	25.40	13.95
23 21	13 23-1281	EA	1-1/2" Nipple, 4" Long, Screwed Carbon Steel	29.85	15.04
23 21	13 23-1282	EA	2" Nipple, 4" Long, Screwed Carbon Steel	36.43	19.37
23 21	13 23-1283	EA	1/4" Nipple, 6" Long, Screwed Carbon Steel	25.32	12.33
23 21	13 23-1284	EA	1/2" Nipple, 6" Long, Screwed Carbon Steel	24.12	12.87
23 21	13 23-1285	EA	3/4" Nipple, 6" Long, Screwed Carbon Steel	24.26	12.87
23 21	13 23-1286	EA	1" Nipple, 6" Long, Screwed Carbon Steel	27.45	13.95
23 21	13 23-1287	EA	1-1/2" Nipple, 6" Long, Screwed Carbon Steel	33.33	15.04
23 21	13 23-1288	EA	2" Nipple, 6" Long, Screwed Carbon Steel	39.51	19.37
23 21 13 23-1289 Unions, Screwed Carbon Steel (23 21 13 23-1153)					
23 21	13 23-1290	EA	1/4" Union, 3,000 LB, Screwed Carbon Steel	44.83	29.94
23 21	13 23-1291	EA	1/2" Union, 3,000 LB, Screwed Carbon Steel	47.18	30.07
23 21	13 23-1292	EA	3/4" Union, 3,000 LB, Screwed Carbon Steel	54.18	34.82
23 21	13 23-1293	EA	1" Union, 3,000 LB, Screwed Carbon Steel	64.61	41.06
23 21	13 23-1294	EA	1-1/2" Union, 3,000 LB, Screwed Carbon Steel	92.51	58.26
23 21	13 23-1295	EA	2" Union, 3,000 LB, Screwed Carbon Steel	114.84	72.35
23 21	13 23-1296	EA	1/4" Union, 6,000 LB, Screwed Carbon Steel	72.20	29.94
23 21	13 23-1297	EA	1/2" Union, 6,000 LB, Screwed Carbon Steel	80.27	30.07
23 21	13 23-1298	EA	3/4" Union, 6,000 LB, Screwed Carbon Steel	94.26	34.82
23 21	13 23-1299	EA	1" Union, 6,000 LB, Screwed Carbon Steel	114.00	41.06
23 21	13 23-1300	EA	1-1/2" Union, 6,000 LB, Screwed Carbon Steel	193.49	58.26
23 21	13 23-1301	EA	2" Union, 6,000 LB, Screwed Carbon Steel	239.12	72.35
23 21 13 23-1302 Weld Neck Flanges, Screwed Carbon Steel (23 21 13 23-1153)					
23 21	13 23-1303	EA	1/2" Flange, 150 LB, Screwed Carbon Steel	98.52	55.95
23 21	13 23-1304	EA	3/4" Flange, 150 LB, Screwed Carbon Steel	103.05	58.67
23 21	13 23-1305	EA	1" Flange, 150 LB, Screwed Carbon Steel	106.86	61.24
23 21	13 23-1306	EA	1-1/2" Flange, 150 LB, Screwed Carbon Steel	118.97	68.97
23 21	13 23-1307	EA	2" Flange, 150 LB, Screwed Carbon Steel	123.48	71.94
23 21	13 23-1308	EA	1/2" Flange, 300 LB, Screwed Carbon Steel	99.44	55.95
			<i>For Ring Type Joint, Add</i>	15.48	
			<i>For Blind Flange, Deduct</i>	-36.68	
23 21	13 23-1309	EA	3/4" Flange, 300 LB, Screwed Carbon Steel	104.03	58.67
			<i>For Ring Type Joint, Add</i>	16.00	
			<i>For Blind Flange, Deduct</i>	-38.41	
23 21	13 23-1310	EA	1" Flange, 300 LB, Screwed Carbon Steel	108.35	61.24
			<i>For Ring Type Joint, Add</i>	16.51	
			<i>For Blind Flange, Deduct</i>	-40.04	
23 21	13 23-1311	EA	1-1/2" Flange, 300 LB, Screwed Carbon Steel	122.53	68.97
			<i>For Ring Type Joint, Add</i>	19.10	
			<i>For Blind Flange, Deduct</i>	-45.19	
23 21	13 23-1312	EA	2" Flange, 300 LB, Screwed Carbon Steel	127.04	71.94
			<i>For Ring Type Joint, Add</i>	19.10	
			<i>For Blind Flange, Deduct</i>	-47.00	
23 21	13 23-1313	EA	1/2" Flange, 600 LB, Screwed Carbon Steel	105.53	55.95
			<i>For Ring Type Joint, Add</i>	21.57	
			<i>For Blind Flange, Deduct</i>	-37.90	
23 21	13 23-1314	EA	3/4" Flange, 600 LB, Screwed Carbon Steel	109.60	58.67
			<i>For Ring Type Joint, Add</i>	21.57	
			<i>For Blind Flange, Deduct</i>	-39.53	
23 21	13 23-1315	EA	1" Flange, 600 LB, Screwed Carbon Steel	114.39	61.24
			<i>For Ring Type Joint, Add</i>	22.55	
			<i>For Blind Flange, Deduct</i>	-41.25	
23 21	13 23-1316	EA	1-1/2" Flange, 600 LB, Screwed Carbon Steel	130.02	68.97
			<i>For Ring Type Joint, Add</i>	26.59	
			<i>For Blind Flange, Deduct</i>	-46.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1317 EA 2" Flange, 600 LB, Screwed Carbon Steel	132.69	71.94
<i>For Ring Type Joint, Add</i>	24.75	
<i>For Blind Flange, Deduct</i>	-48.13	
23 21 13 23-1318 Square Head Plugs, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1319 EA 1/4" Square Head Plug, Screwed Carbon Steel	7.03	3.79
23 21 13 23-1320 EA 1/2" Square Head Plug, Screwed Carbon Steel	8.43	4.48
23 21 13 23-1321 EA 3/4" Square Head Plug, Screwed Carbon Steel	9.76	5.15
23 21 13 23-1322 EA 1" Square Head Plug, Screwed Carbon Steel	14.24	7.58
23 21 13 23-1323 EA 1-1/2" Square Head Plug, Screwed Carbon Steel	17.84	7.58
23 21 13 23-1324 EA 2" Square Head Plug, Screwed Carbon Steel	25.60	9.89
23 21 13 23-1325 Hex Head Plugs, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1326 EA 1/4" Hex Head Plug, Screwed Carbon Steel	6.68	3.79
23 21 13 23-1327 EA 1/2" Hex Head Plug, Screwed Carbon Steel	8.10	4.48
23 21 13 23-1328 EA 3/4" Hex Head Plug, Screwed Carbon Steel	9.54	5.15
23 21 13 23-1329 EA 1" Hex Head Plug, Screwed Carbon Steel	14.05	7.58
23 21 13 23-1330 EA 1-1/2" Hex Head Plug, Screwed Carbon Steel	17.04	7.58
23 21 13 23-1331 EA 2" Hex Head Plug, Screwed Carbon Steel	26.16	9.89
23 21 13 23-1332 Round Head Plugs, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1333 EA 1/4" Round Head Plug, Screwed Carbon Steel	7.84	3.79
23 21 13 23-1334 EA 1/2" Round Head Plug, Screwed Carbon Steel	8.48	4.48
23 21 13 23-1335 EA 3/4" Round Head Plug, Screwed Carbon Steel	9.61	5.15
23 21 13 23-1336 EA 1" Round Head Plug, Screwed Carbon Steel	14.37	7.58
23 21 13 23-1337 EA 1-1/2" Round Head Plug, Screwed Carbon Steel	18.83	7.58
23 21 13 23-1338 EA 2" Round Head Plug, Screwed Carbon Steel	25.94	9.89
23 21 13 23-1339 Hexagon Bushings, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1340 EA 1/4" Hex Bushing, Screwed Carbon Steel	6.94	3.79
23 21 13 23-1341 EA 1/2" Hex Bushing, Screwed Carbon Steel	8.08	4.48
23 21 13 23-1342 EA 3/4" Hex Bushing, Screwed Carbon Steel	9.45	5.15
23 21 13 23-1343 EA 1" Hex Bushing, Screwed Carbon Steel	14.31	7.58
23 21 13 23-1344 EA 1-1/2" Hex Bushing, Screwed Carbon Steel	16.98	7.58
23 21 13 23-1345 EA 2" Hex Bushing, Screwed Carbon Steel	25.33	9.89
23 21 13 23-1346 90 Degree Street Elbows, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1347 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel	43.85	20.60
23 21 13 23-1348 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel	50.09	24.12
23 21 13 23-1349 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel	58.39	26.97
23 21 13 23-1350 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel	68.12	30.07
23 21 13 23-1351 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel	106.79	38.48
23 21 13 23-1352 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel	143.42	48.91
23 21 13 23-1353 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel	68.79	24.12
23 21 13 23-1354 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel	96.42	26.97
23 21 13 23-1355 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel	131.76	30.07
23 21 13 23-1356 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel	281.86	38.48
23 21 13 23-1357 Screwed Carbon Steel Laterals (23 21 13 23-1153)		
23 21 13 23-1358 EA 1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel	174.00	30.07
23 21 13 23-1359 EA 3/4" Lateral, Straight, 3,000 LB, Screwed Carbon Steel	208.96	34.82
23 21 13 23-1360 EA 1" Lateral, Straight, 3,000 LB, Screwed Carbon Steel	255.40	41.06
23 21 13 23-1361 EA 1-1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel	329.42	58.26
23 21 13 23-1362 EA 2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel	410.91	72.35
23 21 13 23-1363 EA 1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel	217.70	30.07
23 21 13 23-1364 EA 3/4" Lateral, Straight, 6,000 LB, Screwed Carbon Steel	273.94	34.82
23 21 13 23-1365 EA 1" Lateral, Straight, 6,000 LB, Screwed Carbon Steel	324.89	41.06
23 21 13 23-1366 EA 1-1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel	457.16	58.26
23 21 13 23-1367 Grooved-Joint Pipe (23 21 13 23)		
Note: Includes grooving of pipe. Excludes hangers, elbow, tee, reducer fitting or couplings.		
23 21 13 23-1368 Schedule 10 Black Grooved Pipe (23 21 13 23-1367)		
23 21 13 23-1369 LF 2" Black Schedule 10 Grooved Pipe	34.35	17.21
23 21 13 23-1370 LF 2-1/2" Black Schedule 10 Grooved Pipe	46.54	23.58
23 21 13 23-1371 LF 3" Black Schedule 10 Grooved Pipe	52.12	26.15
23 21 13 23-1372 LF 3-1/2" Black Schedule 10 Grooved Pipe	57.22	27.10
23 21 13 23-1373 LF 4" Black Schedule 10 Grooved Pipe	60.99	29.40
23 21 13 23-1374 LF 5" Black Schedule 10 Grooved Pipe	83.73	36.04
23 21 13 23-1375 LF 6" Black Schedule 10 Grooved Pipe	110.03	51.22
23 21 13 23-1376 LF 8" Black Schedule 10 Grooved Pipe	144.90	57.45
23 21 13 23-1377 LF 10" Black Schedule 10 Grooved Pipe	180.46	69.24
23 21 13 23-1378 LF 12" Black Schedule 10 Grooved Pipe	207.57	78.45

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1379			Schedule 40 Black Grooved Pipe <small>(23 21 13 23-1367)</small>		
23 21 13 23-1380	LF		3/4" Black Schedule 40 Grooved Pipe.....	20.65	10.43
23 21 13 23-1381	LF		1" Black Schedule 40 Grooved Pipe.....	23.31	11.79
23 21 13 23-1382	LF		1-1/4" Black Schedule 40 Grooved Pipe.....	26.24	12.73
23 21 13 23-1383	LF		1-1/2" Black Schedule 40 Grooved Pipe.....	29.86	14.49
23 21 13 23-1384	LF		2" Black Schedule 40 Grooved Pipe.....	37.73	18.43
23 21 13 23-1385	LF		2-1/2" Black Schedule 40 Grooved Pipe.....	52.34	25.21
23 21 13 23-1386	LF		3" Black Schedule 40 Grooved Pipe.....	61.34	28.73
23 21 13 23-1387	LF		4" Black Schedule 40 Grooved Pipe.....	73.81	31.97
23 21 13 23-1388	LF		5" Black Schedule 40 Grooved Pipe.....	99.37	38.88
23 21 13 23-1389	LF		6" Black Schedule 40 Grooved Pipe.....	135.29	56.09
23 21 13 23-1390	LF		8" Black Schedule 40 Grooved Pipe.....	174.93	63.55
23 21 13 23-1391	LF		10" Black Schedule 40 Grooved Pipe.....	236.01	75.88
23 21 13 23-1392	LF		12" Black Schedule 40 Grooved Pipe.....	277.03	87.12
23 21 13 23-1393	LF		14" Black Schedule 40 Grooved Pipe.....	366.81	117.74
23 21 13 23-1394	LF		16" Black Schedule 40 Grooved Pipe.....	426.36	138.47
23 21 13 23-1395	LF		18" Black Schedule 40 Grooved Pipe.....	527.67	168.14
23 21 13 23-1396	LF		20" Black Schedule 40 Grooved Pipe.....	609.45	196.05
23 21 13 23-1397	LF		24" Black Schedule 40 Grooved Pipe.....	787.61	235.35
23 21 13 23-1398			Schedule 80 Black Grooved Pipe <small>(23 21 13 23-1367)</small>		
23 21 13 23-1399	LF		3/4" Black Schedule 80 Grooved Pipe.....	22.61	11.39
23 21 13 23-1400	LF		1" Black Schedule 80 Grooved Pipe.....	24.88	12.06
23 21 13 23-1401	LF		1-1/4" Black Schedule 80 Grooved Pipe.....	28.87	13.42
23 21 13 23-1402	LF		1-1/2" Black Schedule 80 Grooved Pipe.....	32.77	15.04
23 21 13 23-1403	LF		2" Black Schedule 80 Grooved Pipe.....	42.37	19.37
23 21 13 23-1404	LF		2-1/2" Black Schedule 80 Grooved Pipe.....	59.36	26.69
23 21 13 23-1405	LF		3" Black Schedule 80 Grooved Pipe.....	70.02	29.94
23 21 13 23-1406	LF		4" Black Schedule 80 Grooved Pipe.....	85.79	32.65
23 21 13 23-1407	LF		5" Black Schedule 80 Grooved Pipe.....	127.21	41.06
23 21 13 23-1408	LF		6" Black Schedule 80 Grooved Pipe.....	167.91	58.80
23 21 13 23-1409	LF		8" Black Schedule 80 Grooved Pipe.....	242.21	67.20
23 21 13 23-1410	LF		10" Black Schedule 80 Grooved Pipe.....	300.35	81.16
23 21 13 23-1411	LF		12" Black Schedule 80 Grooved Pipe.....	321.85	98.10
23 21 13 23-1412			Schedule 40 Galvanized Grooved Pipe <small>(23 21 13 23-1367)</small>		
23 21 13 23-1413	LF		3/4" Galvanized Schedule 40 Grooved Pipe.....	21.77	10.43
23 21 13 23-1414	LF		1" Galvanized Schedule 40 Grooved Pipe.....	25.14	11.79
23 21 13 23-1415	LF		1-1/4" Galvanized Schedule 40 Grooved Pipe.....	27.92	12.73
23 21 13 23-1416	LF		1-1/2" Galvanized Schedule 40 Grooved Pipe.....	31.78	14.49
23 21 13 23-1417	LF		2" Galvanized Schedule 40 Grooved Pipe.....	40.24	18.43
23 21 13 23-1418	LF		2-1/2" Galvanized Schedule 40 Grooved Pipe.....	56.19	25.21
23 21 13 23-1419	LF		3" Galvanized Schedule 40 Grooved Pipe.....	66.37	28.73
23 21 13 23-1420	LF		4" Galvanized Schedule 40 Grooved Pipe.....	80.93	31.97
23 21 13 23-1421	LF		5" Galvanized Schedule 40 Grooved Pipe.....	111.99	38.88
23 21 13 23-1422	LF		6" Galvanized Schedule 40 Grooved Pipe.....	152.02	56.09
23 21 13 23-1423	LF		8" Galvanized Schedule 40 Grooved Pipe.....	198.87	63.55
23 21 13 23-1424	LF		10" Galvanized Schedule 40 Grooved Pipe.....	276.49	75.88
23 21 13 23-1425	LF		12" Galvanized Schedule 40 Grooved Pipe.....	325.88	87.12
23 21 13 23-1426			Schedule 80 Galvanized Grooved Pipe <small>(23 21 13 23-1367)</small>		
23 21 13 23-1427	LF		3/4" Galvanized Schedule 80 Grooved Pipe.....	23.44	11.39
23 21 13 23-1428	LF		1" Galvanized Schedule 80 Grooved Pipe.....	29.78	12.06
23 21 13 23-1429	LF		1-1/4" Galvanized Schedule 80 Grooved Pipe.....	30.46	13.42
23 21 13 23-1430	LF		1-1/2" Galvanized Schedule 80 Grooved Pipe.....	39.39	15.99
23 21 13 23-1431	LF		2" Galvanized Schedule 80 Grooved Pipe.....	44.92	19.37
23 21 13 23-1432	LF		2-1/2" Galvanized Schedule 80 Grooved Pipe.....	63.35	26.69
23 21 13 23-1433	LF		3" Galvanized Schedule 80 Grooved Pipe.....	75.61	29.94
23 21 13 23-1434	LF		4" Galvanized Schedule 80 Grooved Pipe.....	93.76	32.65
23 21 13 23-1435	LF		5" Galvanized Schedule 80 Grooved Pipe.....	138.89	41.06
23 21 13 23-1436	LF		6" Galvanized Schedule 80 Grooved Pipe.....	181.59	58.80
23 21 13 23-1437	LF		8" Galvanized Schedule 80 Grooved Pipe.....	265.66	67.20
23 21 13 23-1438	LF		10" Galvanized Schedule 80 Grooved Pipe.....	316.49	81.16
23 21 13 23-1439	LF		12" Galvanized Schedule 80 Grooved Pipe.....	349.91	98.10
23 21 13 23-1440			Painted Grooved-Joint Pipe Fittings <small>(23 21 13 23)</small>		
			Note: Couplings are not included with fittings.		
23 21 13 23-1441			Grooved Elbows <small>(23 21 13 23-1440)</small>		
23 21 13 23-1442			90 Degree Grooved Elbows <small>(23 21 13 23-1441)</small>		
			Note: Victaulic No. 10		
23 21 13 23-1443	EA		3/4", Ductile Iron, Grooved 90 Degree Elbow.....	89.75	14.77
			<i>For Galvanized Fittings, Add</i>	<i>22.31</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1444 EA 1", Ductile Iron, Grooved 90 Degree Elbow	89.75	14.77
For Galvanized Fittings, Add	22.31	
23 21 13 23-1445 EA 1-1/4", Ductile Iron, Grooved 90 Degree Elbow	95.28	18.43
For Galvanized Fittings, Add	22.31	
23 21 13 23-1446 EA 1-1/2", Ductile Iron, Grooved 90 Degree Elbow	101.15	22.36
For Galvanized Fittings, Add	22.31	
23 21 13 23-1447 EA 2", Ductile Iron, Grooved 90 Degree Elbow	111.89	29.54
For Galvanized Fittings, Add	22.31	
23 21 13 23-1448 EA 2-1/2", Ductile Iron, Grooved 90 Degree Elbow	121.55	36.04
For Galvanized Fittings, Add	22.31	
23 21 13 23-1449 EA 3", Ductile Iron, Grooved 90 Degree Elbow	185.50	43.63
For Galvanized Fittings, Add	39.64	
23 21 13 23-1450 EA 4", Ductile Iron, Grooved 90 Degree Elbow	217.13	57.58
For Galvanized Fittings, Add	43.17	
23 21 13 23-1451 EA 5", Ductile Iron, Grooved 90 Degree Elbow	426.33	71.94
For Galvanized Fittings, Add	105.09	
23 21 13 23-1452 EA 6", Ductile Iron, Grooved 90 Degree Elbow	511.24	94.16
For Galvanized Fittings, Add	122.14	
23 21 13 23-1453 EA 8", Ductile Iron, Grooved 90 Degree Elbow	946.97	112.05
For Galvanized Fittings, Add	257.05	
23 21 13 23-1454 EA 10", Ductile Iron, Grooved 90 Degree Elbow	1,409.62	130.74
For Galvanized Fittings, Add	400.49	
23 21 13 23-1455 EA 12", Ductile Iron, Grooved 90 Degree Elbow	2,180.44	156.89
For Galvanized Fittings, Add	641.92	
23 21 13 23-1456 EA 14", Steel, Grooved 90 Degree Elbow	4,310.91	177.08
For Galvanized Fittings, Add	1,334.97	
23 21 13 23-1457 EA 16", Steel, Grooved 90 Degree Elbow	5,587.38	196.05
For Galvanized Fittings, Add	1,746.82	
23 21 13 23-1458 EA 18", Steel, Grooved 90 Degree Elbow	7,034.65	214.20
For Galvanized Fittings, Add	2,215.47	
23 21 13 23-1459 EA 20", Steel, Grooved 90 Degree Elbow	9,156.34	222.74
For Galvanized Fittings, Add	2,911.36	
23 21 13 23-1460 EA 24", Steel, Grooved 90 Degree Elbow	13,090.28	263.39
For Galvanized Fittings, Add	4,189.52	
23 21 13 23-1461 45 Degree Grooved Elbows (23 21 13 23-1441)		
Note: Victaulic No. 11		
23 21 13 23-1462 EA 3/4", Ductile Iron, Grooved 45 Degree Elbow	89.71	14.77
For Galvanized Fittings, Add	16.22	
23 21 13 23-1463 EA 1", Ductile Iron, Grooved 45 Degree Elbow	89.71	14.77
For Galvanized Fittings, Add	16.22	
23 21 13 23-1464 EA 1-1/4", Ductile Iron, Grooved 45 Degree Elbow	95.24	18.43
For Galvanized Fittings, Add	16.22	
23 21 13 23-1465 EA 1-1/2", Ductile Iron, Grooved 45 Degree Elbow	101.11	22.36
For Galvanized Fittings, Add	16.22	
23 21 13 23-1466 EA 2", Ductile Iron, Grooved 45 Degree Elbow	111.85	29.54
For Galvanized Fittings, Add	16.22	
23 21 13 23-1467 EA 2-1/2", Ductile Iron, Grooved 45 Degree Elbow	121.51	36.04
For Galvanized Fittings, Add	16.22	
23 21 13 23-1468 EA 3", Ductile Iron, Grooved 45 Degree Elbow	185.45	43.63
For Galvanized Fittings, Add	28.82	
23 21 13 23-1469 EA 4", Ductile Iron, Grooved 45 Degree Elbow	217.13	57.58
For Galvanized Fittings, Add	31.40	
23 21 13 23-1470 EA 5", Ductile Iron, Grooved 45 Degree Elbow	426.33	71.94
For Galvanized Fittings, Add	76.43	
23 21 13 23-1471 EA 6", Ductile Iron, Grooved 45 Degree Elbow	511.24	94.16
For Galvanized Fittings, Add	88.83	
23 21 13 23-1472 EA 8", Ductile Iron, Grooved 45 Degree Elbow	946.97	112.05
For Galvanized Fittings, Add	186.95	
23 21 13 23-1473 EA 10", Ductile Iron, Grooved 45 Degree Elbow	1,409.62	130.74
For Galvanized Fittings, Add	291.26	
23 21 13 23-1474 EA 12", Ductile Iron, Grooved 45 Degree Elbow	2,180.44	156.89
For Galvanized Fittings, Add	466.85	
23 21 13 23-1475 EA 14", Steel, Grooved 45 Degree Elbow	4,310.91	177.08
For Galvanized Fittings, Add	970.88	
23 21 13 23-1476 EA 16", Steel, Grooved 45 Degree Elbow	5,587.38	196.05
For Galvanized Fittings, Add	1,270.41	
23 21 13 23-1477 EA 18", Steel, Grooved 45 Degree Elbow	7,034.65	214.20
For Galvanized Fittings, Add	1,611.25	
23 21 13 23-1478 EA 20", Steel, Grooved 45 Degree Elbow	9,156.34	223.15
For Galvanized Fittings, Add	2,117.35	
23 21 13 23-1479 EA 24", Steel, Grooved 45 Degree Elbow	13,090.28	263.39
For Galvanized Fittings, Add	3,046.92	
23 21 13 23-1480 22-1/2 Degree Grooved Elbows (23 21 13 23-1441)		
Note: Victaulic No. 12		
23 21 13 23-1481 EA 1", Ductile Iron, Grooved 22-1/2 Degree Elbow	94.16	14.77
For Galvanized Fittings, Add	17.28	
23 21 13 23-1482 EA 1-1/4", Ductile Iron, Grooved 22-1/2 Degree Elbow	99.69	18.43
For Galvanized Fittings, Add	17.28	
23 21 13 23-1483 EA 1-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow	105.56	22.36
For Galvanized Fittings, Add	17.28	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1484 EA 2", Ductile Iron, Grooved 22-1/2 Degree Elbow	116.30	29.54
For Galvanized Fittings, Add	17.28	
23 21 13 23-1485 EA 2-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow	125.96	36.04
For Galvanized Fittings, Add	17.28	
23 21 13 23-1486 EA 3", Ductile Iron, Grooved 22-1/2 Degree Elbow	170.71	43.63
For Galvanized Fittings, Add	25.28	
23 21 13 23-1487 EA 4", Ductile Iron, Grooved 22-1/2 Degree Elbow	227.54	57.58
For Galvanized Fittings, Add	33.90	
23 21 13 23-1488 EA 5", Ductile Iron, Grooved 22-1/2 Degree Elbow	545.86	71.94
For Galvanized Fittings, Add	105.12	
23 21 13 23-1489 EA 6", Ductile Iron, Grooved 22-1/2 Degree Elbow	541.25	94.16
For Galvanized Fittings, Add	96.03	
23 21 13 23-1490 EA 8", Ductile Iron, Grooved 22-1/2 Degree Elbow	1,005.20	112.05
For Galvanized Fittings, Add	200.92	
23 21 13 23-1491 EA 10", Steel, Grooved 22-1/2 Degree Elbow	1,345.36	130.74
For Galvanized Fittings, Add	275.84	
23 21 13 23-1492 EA 12", Steel, Grooved 22-1/2 Degree Elbow	1,789.04	156.89
For Galvanized Fittings, Add	372.91	
23 21 13 23-1493 EA 14", Steel, Grooved 22-1/2 Degree Elbow	2,060.25	177.08
For Galvanized Fittings, Add	430.73	
23 21 13 23-1494 EA 16", Steel, Grooved 22-1/2 Degree Elbow	2,446.49	196.05
For Galvanized Fittings, Add	516.60	
23 21 13 23-1495 EA 18", Steel, Grooved 22-1/2 Degree Elbow	2,927.91	214.20
For Galvanized Fittings, Add	625.64	
23 21 13 23-1496 EA 20", Steel, Grooved 22-1/2 Degree Elbow	3,416.00	222.74
For Galvanized Fittings, Add	739.67	
23 21 13 23-1497 EA 24", Steel, Grooved 22-1/2 Degree Elbow	4,536.26	263.39
For Galvanized Fittings, Add	993.96	
23 21 13 23-1498 11-1/4 Degree Grooved Elbows (23 21 13 23-1441)		
Note: Victaulic No. 13		
23 21 13 23-1499 EA 1", Ductile Iron, Grooved 11-1/4 Degree Elbow	94.16	14.77
For Galvanized Fittings, Add	17.28	
23 21 13 23-1500 EA 1-1/4", Ductile Iron, Grooved 11-1/4 Degree Elbow	99.69	18.43
For Galvanized Fittings, Add	17.28	
23 21 13 23-1501 EA 1-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow	105.56	22.36
For Galvanized Fittings, Add	17.28	
23 21 13 23-1502 EA 2", Ductile Iron, Grooved 11-1/4 Degree Elbow	116.30	29.54
For Galvanized Fittings, Add	17.28	
23 21 13 23-1503 EA 2-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow	125.96	36.04
For Galvanized Fittings, Add	17.28	
23 21 13 23-1504 EA 3", Ductile Iron, Grooved 11-1/4 Degree Elbow	170.70	43.63
For Galvanized Fittings, Add	25.28	
23 21 13 23-1505 EA 4", Ductile Iron, Grooved 11-1/4 Degree Elbow	227.53	57.58
For Galvanized Fittings, Add	33.90	
23 21 13 23-1506 EA 5", Ductile Iron, Grooved 11-1/4 Degree Elbow	545.84	71.94
For Galvanized Fittings, Add	105.11	
23 21 13 23-1507 EA 6", Ductile Iron, Grooved 11-1/4 Degree Elbow	541.23	94.16
For Galvanized Fittings, Add	96.02	
23 21 13 23-1508 EA 8", Ductile Iron, Grooved 11-1/4 Degree Elbow	1,005.15	112.05
For Galvanized Fittings, Add	200.91	
23 21 13 23-1509 EA 10", Steel, Grooved 11-1/4 Degree Elbow	1,345.30	130.74
For Galvanized Fittings, Add	275.83	
23 21 13 23-1510 EA 12", Steel, Grooved 11-1/4 Degree Elbow	1,788.95	156.89
For Galvanized Fittings, Add	372.89	
23 21 13 23-1511 EA 14", Steel, Grooved 11-1/4 Degree Elbow	2,060.16	177.08
For Galvanized Fittings, Add	430.70	
23 21 13 23-1512 EA 16", Steel, Grooved 11-1/4 Degree Elbow	2,446.41	196.19
For Galvanized Fittings, Add	516.57	
23 21 13 23-1513 EA 18", Steel, Grooved 11-1/4 Degree Elbow	2,927.74	214.20
For Galvanized Fittings, Add	625.60	
23 21 13 23-1514 EA 20", Steel, Grooved 11-1/4 Degree Elbow	3,415.82	222.74
For Galvanized Fittings, Add	739.63	
23 21 13 23-1515 EA 24", Steel, Grooved 11-1/4 Degree Elbow	4,536.03	263.39
For Galvanized Fittings, Add	993.90	
23 21 13 23-1516 90 Degree Grooved Long Radius Elbows (23 21 13 23-1441)		
Note: Victaulic No. 100		
23 21 13 23-1517 EA 2", Ductile Iron, Grooved 90 Degree Long Radius Elbow	198.86	29.54
For Galvanized Fittings, Add	37.10	
23 21 13 23-1518 EA 2-1/2", Ductile Iron, Grooved 90 Degree Long Radius Elbow	502.47	36.04
For Galvanized Fittings, Add	107.65	
23 21 13 23-1519 EA 3", Ductile Iron, Grooved 90 Degree Long Radius Elbow	219.96	43.63
For Galvanized Fittings, Add	37.10	
23 21 13 23-1520 EA 4", Ductile Iron, Grooved 90 Degree Long Radius Elbow	317.86	57.58
For Galvanized Fittings, Add	55.57	
23 21 13 23-1521 EA 5", Ductile Iron, Grooved 90 Degree Long Radius Elbow	1,294.75	71.94
For Galvanized Fittings, Add	284.85	
23 21 13 23-1522 EA 6", Ductile Iron, Grooved 90 Degree Long Radius Elbow	818.53	94.16
For Galvanized Fittings, Add	162.58	
23 21 13 23-1523 EA 8", Ductile Iron, Grooved, 90 Degree Long Radius Elbow	1,792.87	112.05
For Galvanized Fittings, Add	389.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1524 EA 10", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	3,565.02 808.56	130.74
23 21 13 23-1525 EA 12", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	4,252.77 964.21	156.89
23 21 13 23-1526 Grooved Tees, Wyes And Crosses <small>(23 21 13 23-1440)</small>		
23 21 13 23-1527 Grooved Tees <small>(23 21 13 23-1526)</small> Note: Victaulic No. 20		
23 21 13 23-1528 EA 3/4", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	132.45 31.00	19.37
23 21 13 23-1529 EA 1", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	136.86 31.00	22.36
23 21 13 23-1530 EA 1-1/4", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	144.32 31.00	27.37
23 21 13 23-1531 EA 1-1/2", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	153.63 31.00	33.60
23 21 13 23-1532 EA 2", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	168.44 31.00	43.49
23 21 13 23-1533 EA 2-1/2", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	183.22 31.00	53.25
23 21 13 23-1534 EA 3", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	242.79 43.42	65.44
23 21 13 23-1535 EA 4", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	348.92 66.60	84.68
23 21 13 23-1536 EA 5", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	686.83 156.26	110.70
23 21 13 23-1537 EA 6", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	809.54 180.60	138.47
23 21 13 23-1538 EA 8", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	1,567.00 394.49	168.14
23 21 13 23-1539 EA 10", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	2,642.20 704.45	196.05
23 21 13 23-1540 EA 12", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	3,640.28 986.24	235.35
23 21 13 23-1541 EA 14", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	3,978.35 1,075.89	261.49
23 21 13 23-1542 EA 16", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	4,962.55 1,370.48	262.98
23 21 13 23-1543 EA 18", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	6,155.89 1,716.31	290.08
23 21 13 23-1544 EA 20", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	8,639.01 2,459.18	294.69
23 21 13 23-1545 EA 24", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	13,137.60 3,778.43	362.03
23 21 13 23-1546 Grooved Wyes (90 Degree True Wye) <small>(23 21 13 23-1526)</small> Note: Victaulic No. 33		
23 21 13 23-1547 EA 1", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	469.48 69.75	22.36
23 21 13 23-1548 EA 1-1/4", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	476.94 69.75	27.37
23 21 13 23-1549 EA 1-1/2", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	486.25 69.75	33.60
23 21 13 23-1550 EA 2", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	501.06 69.75	43.49
23 21 13 23-1551 EA 2-1/2", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	515.84 69.75	53.25
23 21 13 23-1552 EA 3", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	619.16 83.38	65.44
23 21 13 23-1553 EA 4", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	809.45 109.21	84.68
23 21 13 23-1554 EA 5", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	1,144.28 156.53	110.70
23 21 13 23-1555 EA 6", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	1,418.02 193.68	138.47
23 21 13 23-1556 EA 8", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	1,995.42 278.94	168.14
23 21 13 23-1557 EA 10", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	3,303.11 481.45	196.05
23 21 13 23-1558 EA 12", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	3,677.17 531.89	235.35
23 21 13 23-1559 EA 14", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	4,188.07 607.36	261.49
23 21 13 23-1560 EA 16", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	5,324.41 788.89	262.71
23 21 13 23-1561 EA 18", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	6,075.33 902.39	290.35
23 21 13 23-1562 EA 20", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	8,620.90 1,308.78	294.14
23 21 13 23-1563 EA 24", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	13,260.22 2,034.78	362.03

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1564		Grooved Crosses <small>(23 21 13 23-1526)</small> Note: Victaulic No. 35		
23 21 13 23-1565	EA	3/4", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	325.93 42.34	29.13
23 21 13 23-1566	EA	1", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	332.55 42.34	33.60
23 21 13 23-1567	EA	1-1/4", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	402.13 51.10	41.06
23 21 13 23-1568	EA	1-1/2", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	442.53 55.06	50.40
23 21 13 23-1569	EA	2", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	305.11 31.12	65.17
23 21 13 23-1570	EA	2-1/2", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	327.30 31.12	79.94
23 21 13 23-1571	EA	3", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	519.85 55.91	98.10
23 21 13 23-1572	EA	4", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	810.86 93.07	126.95
23 21 13 23-1573	EA	5", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	1,516.55 190.14	165.98
23 21 13 23-1574	EA	6", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	1,942.24 244.64	207.71
23 21 13 23-1575	EA	8", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	2,525.96 322.19	252.14
23 21 13 23-1576	EA	10", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	4,104.43 549.51	294.14
23 21 13 23-1577	EA	12", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	5,815.81 792.98	353.08
23 21 13 23-1578	EA	14", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	6,065.21 821.57	392.24
23 21 13 23-1579	EA	16", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	7,756.43 1,074.75	394.54
23 21 13 23-1580	EA	18", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	9,434.85 1,317.39	435.05
23 21 13 23-1581	EA	20", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	13,104.92 1,866.37	441.83
23 21 13 23-1582	EA	24", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	20,022.62 2,881.26	543.03
23 21 13 23-1583		Grooved Reducing Tees <small>(23 21 13 23-1526)</small> Note: Victaulic No. 25		
23 21 13 23-1584	EA	1", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	232.89 39.87	22.36
23 21 13 23-1585	EA	1-1/4", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	246.62 41.12	27.37
23 21 13 23-1586	EA	1-1/2", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	261.05 42.15	33.60
23 21 13 23-1587	EA	2", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	311.84 49.34	43.49
23 21 13 23-1588	EA	2-1/2", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	352.00 54.42	53.25
23 21 13 23-1589	EA	3", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	395.89 59.57	65.44
23 21 13 23-1590	EA	4", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	528.58 80.33	84.68
23 21 13 23-1591	EA	5", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	696.33 106.07	110.70
23 21 13 23-1592	EA	6", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	953.65 149.22	138.47
23 21 13 23-1593	EA	8", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	1,483.09 246.21	168.14
23 21 13 23-1594	EA	10", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	2,108.88 362.97	196.05
23 21 13 23-1595	EA	12", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	3,030.04 535.44	235.35
23 21 13 23-1596	EA	14", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	3,432.78 608.15	261.49
23 21 13 23-1597	EA	16", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	4,344.16 789.97	262.98
23 21 13 23-1598	EA	18", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	5,270.41 967.12	290.08
23 21 13 23-1599	EA	20", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	7,357.38 1,383.15	294.55
23 21 13 23-1600	EA	24", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	11,682.70 2,227.98	362.03
23 21 13 23-1601		Grooved 45 Degree Lateral Wyes <small>(23 21 13 23-1526)</small> Note: Victaulic No. 30		
23 21 13 23-1602	EA	3/4", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	441.97 74.31	19.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1603 EA 1", Steel, Grooved, 45 Degree Lateral Wye.....	446.38	22.36
For Galvanized Fittings, Add	74.31	
23 21 13 23-1604 EA 1-1/4", Steel, Grooved, 45 Degree Lateral Wye.....	453.84	27.37
For Galvanized Fittings, Add	74.31	
23 21 13 23-1605 EA 1-1/2", Steel, Grooved, 45 Degree Lateral Wye.....	463.15	33.60
For Galvanized Fittings, Add	74.31	
23 21 13 23-1606 EA 2", Steel, Grooved, 45 Degree Lateral Wye.....	477.96	43.49
For Galvanized Fittings, Add	74.31	
23 21 13 23-1607 EA 2-1/2", Steel, Grooved, 45 Degree Lateral Wye.....	492.74	53.25
For Galvanized Fittings, Add	74.31	
23 21 13 23-1608 EA 3", Steel, Grooved, 45 Degree Lateral Wye.....	454.71	65.44
For Galvanized Fittings, Add	64.20	
23 21 13 23-1609 EA 3-1/2", Steel, Grooved, 45 Degree Lateral Wye.....	717.31	75.46
For Galvanized Fittings, Add	108.77	
23 21 13 23-1610 EA 4", Steel, Grooved, 45 Degree Lateral Wye.....	830.28	84.68
For Galvanized Fittings, Add	126.61	
23 21 13 23-1611 EA 5", Steel, Grooved, 45 Degree Lateral Wye.....	1,193.91	110.70
For Galvanized Fittings, Add	185.03	
23 21 13 23-1612 EA 6", Steel, Grooved, 45 Degree Lateral Wye.....	1,863.75	138.47
For Galvanized Fittings, Add	298.12	
23 21 13 23-1613 EA 8", Steel, Grooved, 45 Degree Lateral Wye.....	2,637.57	168.14
For Galvanized Fittings, Add	429.40	
23 21 13 23-1614 EA 10", Steel, Grooved, 45 Degree Lateral Wye.....	3,661.16	196.05
For Galvanized Fittings, Add	606.09	
23 21 13 23-1615 EA 12", Steel, Grooved, 45 Degree Lateral Wye.....	4,423.86	235.35
For Galvanized Fittings, Add	732.79	
23 21 13 23-1616 EA 14", Steel, Grooved, 45 Degree Lateral Wye.....	6,333.97	261.49
For Galvanized Fittings, Add	1,069.55	
23 21 13 23-1617 EA 16", Steel, Grooved, 45 Degree Lateral Wye.....	7,817.39	262.98
For Galvanized Fittings, Add	1,336.15	
23 21 13 23-1618 EA 18", Steel, Grooved, 45 Degree Lateral Wye.....	8,732.90	290.08
For Galvanized Fittings, Add	1,493.66	
23 21 13 23-1619 EA 20", Steel, Grooved, 45 Degree Lateral Wye.....	13,028.43	294.55
For Galvanized Fittings, Add	2,265.63	
23 21 13 23-1620 EA 24", Steel, Grooved, 45 Degree Lateral Wye.....	20,101.79	362.03
For Galvanized Fittings, Add	3,520.61	
23 21 13 23-1621 Grooved 45 Degree Lateral Reducing Wyes (23 21 13 23-1526)		
Note: Victaulic No. 30R		
23 21 13 23-1622 EA 3", Steel, Grooved 45 Degree Lateral Reducing Wye.....	454.71	65.44
For Galvanized Fittings, Add	46.36	
23 21 13 23-1623 EA 4", Steel, Grooved 45 Degree Lateral Reducing Wye.....	830.28	84.68
For Galvanized Fittings, Add	91.44	
23 21 13 23-1624 EA 5", Steel, Grooved 45 Degree Lateral Reducing Wye.....	1,193.91	110.70
For Galvanized Fittings, Add	133.63	
23 21 13 23-1625 EA 6", Steel, Grooved 45 Degree Lateral Reducing Wye.....	1,535.66	138.47
For Galvanized Fittings, Add	172.65	
23 21 13 23-1626 EA 8", Steel, Grooved 45 Degree Lateral Reducing Wye.....	2,169.27	168.14
For Galvanized Fittings, Add	249.24	
23 21 13 23-1627 EA 10", Steel, Grooved 45 Degree Lateral Reducing Wye.....	2,642.11	196.05
For Galvanized Fittings, Add	305.25	
23 21 13 23-1628 EA 12", Steel, Grooved 45 Degree Lateral Reducing Wye.....	3,206.34	235.35
For Galvanized Fittings, Add	370.96	
23 21 13 23-1629 EA 14", Steel, Grooved 45 Degree Lateral Reducing Wye.....	3,588.69	261.49
For Galvanized Fittings, Add	415.56	
23 21 13 23-1630 EA 16", Steel, Grooved 45 Degree Lateral Reducing Wye.....	4,526.27	262.98
For Galvanized Fittings, Add	537.15	
23 21 13 23-1631 EA 18", Steel, Grooved 45 Degree Lateral Reducing Wye.....	6,779.44	290.08
For Galvanized Fittings, Add	824.80	
23 21 13 23-1632 EA 20", Steel, Grooved 45 Degree Lateral Reducing Wye.....	9,728.48	294.55
For Galvanized Fittings, Add	1,207.29	
23 21 13 23-1633 EA 24", Steel, Grooved 45 Degree Lateral Reducing Wye.....	15,578.61	362.03
For Galvanized Fittings, Add	1,954.65	
23 21 13 23-1634 Mechanical-T Outlet (23 21 13 23-1526)		
Note: Includes making opening in pipe. Grooved or treaded branch outlets. Victaulic Styles 920 or 921.		
23 21 13 23-1635 EA 2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	166.21	48.77
For Galvanized Fittings, Add	17.03	
23 21 13 23-1636 EA 2" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	166.21	48.77
For Galvanized Fittings, Add	17.03	
23 21 13 23-1637 EA 2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	176.92	48.77
For Galvanized Fittings, Add	19.68	
23 21 13 23-1638 EA 2" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet.....	176.92	48.77
23 21 13 23-1639 EA 2-1/2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	178.40	54.88
23 21 13 23-1640 EA 2-1/2" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	178.40	54.88
23 21 13 23-1641 EA 2-1/2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	206.69	54.88
23 21 13 23-1642 EA 3" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	201.00	60.97
23 21 13 23-1643 EA 3" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	201.00	60.97
23 21 13 23-1644 EA 3" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	223.78	60.97
23 21 13 23-1645 EA 3" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet.....	223.78	60.97
23 21 13 23-1646 EA 3" x 2" Mechanical-T Outlet With Threaded Branch Outlet.....	239.38	60.97
23 21 13 23-1647 EA 4" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	263.39	81.29

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1648 EA 4" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	263.39	81.29
23 21 13 23-1649 EA 4" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	281.18	81.29
23 21 13 23-1650 EA 4" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	286.17	81.29
23 21 13 23-1651 EA 4" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	286.17	81.29
23 21 13 23-1652 EA 4" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	291.16	81.29
23 21 13 23-1653 EA 4" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	300.73	81.29
23 21 13 23-1654 EA 5" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	375.33	111.77
23 21 13 23-1655 EA 5" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	375.33	111.77
23 21 13 23-1656 EA 5" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	383.96	111.77
23 21 13 23-1657 EA 5" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	394.78	111.77
23 21 13 23-1658 EA 6" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	439.83	142.26
23 21 13 23-1659 EA 6" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	439.83	142.26
23 21 13 23-1660 EA 6" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	452.52	142.26
23 21 13 23-1661 EA 6" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	463.23	142.26
23 21 13 23-1662 EA 6" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	482.27	142.26
23 21 13 23-1663 EA 8" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	651.48	188.32
23 21 13 23-1664 EA 8" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	651.48	188.32
23 21 13 23-1665 EA 8" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	666.77	188.32
23 21 13 23-1666 EA 8" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	675.82	188.32
23 21 13 23-1667 Installation-Ready™ Grooved Fittings (23 21 13 23-1440)		
23 21 13 23-1668 Installation-Ready™ 90 Degree Grooved Elbows (23 21 13 23-1667)		
Note: Victaulic No. 101		
23 21 13 23-1669 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	258.48	13.42
For Galvanized Fittings, Add	78.59	
For Galvanized Fittings, Add	60.97	
23 21 13 23-1670 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	269.55	16.09
For Galvanized Fittings, Add	80.90	
For Galvanized Fittings, Add	62.76	
23 21 13 23-1671 EA 2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	279.43	21.46
For Galvanized Fittings, Add	81.48	
For Galvanized Fittings, Add	63.21	
23 21 13 23-1672 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	338.33	26.82
For Galvanized Fittings, Add	98.24	
For Galvanized Fittings, Add	76.21	
23 21 13 23-1673 Installation-Ready™ 45 Degree Grooved Elbows (23 21 13 23-1667)		
Note: Victaulic No. 103		
23 21 13 23-1674 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....	258.48	13.42
For Galvanized Fittings, Add	57.16	
For Galvanized Fittings, Add	60.97	
23 21 13 23-1675 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....	269.55	16.09
For Galvanized Fittings, Add	58.84	
For Galvanized Fittings, Add	62.76	
23 21 13 23-1676 EA 2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....	279.43	21.46
For Galvanized Fittings, Add	59.26	
For Galvanized Fittings, Add	63.21	
23 21 13 23-1677 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....	338.33	26.82
For Galvanized Fittings, Add	71.45	
For Galvanized Fittings, Add	76.21	
23 21 13 23-1678 Installation-Ready™ Grooved Tees (23 21 13 23-1667)		
Note: Victaulic No. 102		
23 21 13 23-1679 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ Tee.....	394.84	17.88
For Galvanized Fittings, Add	110.32	
For Galvanized Fittings, Add	94.14	
23 21 13 23-1680 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee.....	412.52	21.46
For Galvanized Fittings, Add	114.00	
For Galvanized Fittings, Add	97.28	
23 21 13 23-1681 EA 2" Ductile Iron, Grooved, Installation-Ready™ Tee.....	428.61	28.61
For Galvanized Fittings, Add	115.58	
For Galvanized Fittings, Add	98.62	
23 21 13 23-1682 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee.....	498.98	35.77
For Galvanized Fittings, Add	133.44	
For Galvanized Fittings, Add	113.87	
23 21 13 23-1683 Grooved Fittings (23 21 13 23-1440)		
23 21 13 23-1684 Flanged Adapter Nipple, Grooved (23 21 13 23-1683)		
Note: Victaulic No. 41 and 45		
23 21 13 23-1685 EA 1" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	314.93	16.25
For Galvanized Fittings, Add	52.30	
For 300 LB Rating, Add	43.58	
23 21 13 23-1686 EA 1-1/4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	317.64	18.02
For Galvanized Fittings, Add	52.30	
For 300 LB Rating, Add	43.58	
23 21 13 23-1687 EA 1-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	324.42	22.63
For Galvanized Fittings, Add	52.30	
For 300 LB Rating, Add	43.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1688 EA 2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	338.67	32.11
For Galvanized Fittings, Add	52.30	
For 300 LB Rating, Add	43.58	
23 21 13 23-1689 EA 2-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	348.85	38.88
For Galvanized Fittings, Add	52.30	
For 300 LB Rating, Add	43.58	
23 21 13 23-1690 EA 3" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	441.35	46.47
For Galvanized Fittings, Add	66.92	
For 300 LB Rating, Add	55.76	
23 21 13 23-1691 EA 4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	537.16	62.59
For Galvanized Fittings, Add	79.80	
For 300 LB Rating, Add	66.50	
23 21 13 23-1692 EA 5" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	747.08	75.74
For Galvanized Fittings, Add	114.04	
For 300 LB Rating, Add	95.03	
23 21 13 23-1693 EA 6" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	876.22	102.29
For Galvanized Fittings, Add	130.11	
For 300 LB Rating, Add	108.42	
23 21 13 23-1694 EA 8" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	1,205.29	138.47
For Galvanized Fittings, Add	179.59	
For 300 LB Rating, Add	149.66	
23 21 13 23-1695 EA 10" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	1,880.18	168.14
For Galvanized Fittings, Add	293.07	
For 300 LB Rating, Add	244.22	
23 21 13 23-1696 EA 12" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	2,520.23	196.05
For Galvanized Fittings, Add	400.72	
For 300 LB Rating, Add	333.93	
23 21 13 23-1697 EA 14" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	2,978.13	235.35
For Galvanized Fittings, Add	472.55	
For 300 LB Rating, Add	393.80	
23 21 13 23-1698 EA 16" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	4,435.05	261.49
For Galvanized Fittings, Add	727.74	
For 300 LB Rating, Add	606.45	
23 21 13 23-1699 EA 18" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	5,336.91	392.24
For Galvanized Fittings, Add	854.79	
For 300 LB Rating, Add	712.33	
23 21 13 23-1700 EA 20" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	5,655.50	470.68
For Galvanized Fittings, Add	890.97	
For 300 LB Rating, Add	742.48	
23 21 13 23-1701 EA 24" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	9,323.16	522.98
For Galvanized Fittings, Add	1,537.04	
For 300 LB Rating, Add	1,280.86	
23 21 13 23-1702 Grooved Concentric Reducers (23 21 13 23-1683)		
Note: Victaulic No. 50		
23 21 13 23-1703 EA 1-1/4" x 3/4", Grooved Concentric Reducer.....	334.27	16.25
For Galvanized Fittings, Add	13.63	
23 21 13 23-1704 EA 1-1/4" x 1", Grooved Concentric Reducer.....	349.59	17.21
For Galvanized Fittings, Add	14.25	
23 21 13 23-1705 EA 1-1/2" x 3/4", Grooved Concentric Reducer.....	393.54	18.56
For Galvanized Fittings, Add	43.96	
23 21 13 23-1706 EA 1-1/2" x 1", Grooved Concentric Reducer.....	107.45	19.37
For Galvanized Fittings, Add	9.41	
23 21 13 23-1707 EA 1-1/2" x 1-1/4", Grooved Concentric Reducer.....	333.65	20.33
For Galvanized Fittings, Add	36.44	
23 21 13 23-1708 EA 2" x 3/4", Grooved Concentric Reducer.....	111.51	22.09
For Galvanized Fittings, Add	9.41	
23 21 13 23-1709 EA 2" x 1", Grooved Concentric Reducer.....	112.87	23.03
For Galvanized Fittings, Add	9.41	
23 21 13 23-1710 EA 2" x 1-1/4", Grooved Concentric Reducer.....	122.10	23.98
For Galvanized Fittings, Add	10.36	
23 21 13 23-1711 EA 2" x 1-1/2", Grooved Concentric Reducer.....	118.37	26.69
For Galvanized Fittings, Add	9.41	
23 21 13 23-1712 EA 2-1/2" x 3/4", Grooved Concentric Reducer.....	674.84	24.93
For Galvanized Fittings, Add	76.62	
23 21 13 23-1713 EA 2-1/2" x 1", Grooved Concentric Reducer.....	538.77	25.88
For Galvanized Fittings, Add	60.11	
23 21 13 23-1714 EA 2-1/2" x 1-1/4", Grooved Concentric Reducer.....	492.72	26.69
For Galvanized Fittings, Add	54.41	
23 21 13 23-1715 EA 2-1/2" x 1-1/2", Grooved Concentric Reducer.....	122.35	29.40
For Galvanized Fittings, Add	9.41	
23 21 13 23-1716 EA 2-1/2" x 2", Grooved Concentric Reducer.....	127.76	32.92
For Galvanized Fittings, Add	9.41	
23 21 13 23-1717 EA 3" x 3/4", Grooved Concentric Reducer.....	685.01	29.00
For Galvanized Fittings, Add	97.52	
23 21 13 23-1718 EA 3" x 1", Grooved Concentric Reducer.....	131.15	29.81
For Galvanized Fittings, Add	13.15	
23 21 13 23-1719 EA 3" x 1-1/4", Grooved Concentric Reducer.....	542.98	30.76
For Galvanized Fittings, Add	75.54	
23 21 13 23-1720 EA 3" x 1-1/2", Grooved Concentric Reducer.....	511.22	32.92
For Galvanized Fittings, Add	70.19	
23 21 13 23-1721 EA 3" x 2", Grooved Concentric Reducer.....	123.57	36.58
For Galvanized Fittings, Add	10.44	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1722	EA	3" x 2-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	160.05 14.39	43.63
23 21	13 23-1723	EA	3-1/2" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	171.33 15.33	47.01
23 21	13 23-1724	EA	4" x 1", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	159.53 17.83	36.99
23 21	13 23-1725	EA	4" x 1-1/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	878.96 140.98	37.94
23 21	13 23-1726	EA	4" x 1-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	688.77 107.78	40.24
23 21	13 23-1727	EA	4" x 2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	157.19 15.69	43.89
23 21	13 23-1728	EA	4" x 2-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	185.11 19.66	47.01
23 21	13 23-1729	EA	4" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	190.52 19.66	50.67
23 21	13 23-1730	EA	4" x 3-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	195.95 19.66	54.19
23 21	13 23-1731	EA	5" x 2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,233.43 198.40	51.07
23 21	13 23-1732	EA	5" x 2-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	978.89 153.93	54.19
23 21	13 23-1733	EA	5" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	220.92 23.02	57.85
23 21	13 23-1734	EA	5" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	257.83 27.49	65.03
23 21	13 23-1735	EA	6" x 1", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	295.80 39.77	55.15
23 21	13 23-1736	EA	6" x 1-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,303.75 226.97	58.26
23 21	13 23-1737	EA	6" x 2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	305.93 39.77	61.92
23 21	13 23-1738	EA	6" x 2-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,320.86 228.27	65.03
23 21	13 23-1739	EA	6" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	316.12 39.77	68.70
23 21	13 23-1740	EA	6" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	299.44 34.64	75.88
23 21	13 23-1741	EA	6" x 5", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	399.27 51.24	83.19
23 21	13 23-1742	EA	8" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	497.38 71.07	77.77
23 21	13 23-1743	EA	8" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	508.19 71.07	84.95
23 21	13 23-1744	EA	8" x 5", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	519.06 71.07	92.13
23 21	13 23-1745	EA	8" x 6", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	640.13 90.63	102.97
23 21	13 23-1746	EA	10" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,048.40 169.21	94.43
23 21	13 23-1747	EA	10" x 5", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	2,151.33 372.99	101.62
23 21	13 23-1748	EA	10" x 6", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,160.31 185.04	112.46
23 21	13 23-1749	EA	10" x 8", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,173.84 185.04	121.53
23 21	13 23-1750	EA	12" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	3,163.02 450.27	107.58
23 21	13 23-1751	EA	12" x 6", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,371.02 177.41	125.59
23 21	13 23-1752	EA	12" x 8", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,978.50 266.50	134.68
23 21	13 23-1753	EA	12" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,992.80 266.50	144.16
23 21	13 23-1754	EA	14" x 6", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	6,231.07 185.06	135.35
23 21	13 23-1755	EA	14" x 8", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	3,754.85 108.63	144.43
23 21	13 23-1756	EA	14" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	3,218.26 91.72	153.92
23 21	13 23-1757	EA	14" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	3,237.86 91.72	166.92
23 21	13 23-1758	EA	16" x 8", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	5,682.65 167.36	154.05
23 21	13 23-1759	EA	16" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	5,285.58 154.74	163.53
23 21	13 23-1760	EA	16" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	4,902.04 142.36	176.68
23 21	13 23-1761	EA	16" x 14", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	4,916.68 142.36	186.43
23 21	13 23-1762	EA	18" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	7,376.08 218.50	172.61
23 21	13 23-1763	EA	18" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	6,695.68 197.01	185.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1764 EA 18" x 14", Grooved Concentric Reducer	6,102.61	195.38
For Galvanized Fittings, Add	178.35	
23 21 13 23-1765 EA 18" x 16", Grooved Concentric Reducer	6,117.24	205.26
For Galvanized Fittings, Add	178.35	
23 21 13 23-1766 EA 20" x 10", Grooved Concentric Reducer	8,111.08	177.08
For Galvanized Fittings, Add	240.86	
23 21 13 23-1767 EA 20" x 12", Grooved Concentric Reducer	6,974.08	190.23
For Galvanized Fittings, Add	205.35	
23 21 13 23-1768 EA 20" x 14", Grooved Concentric Reducer	6,988.72	199.98
For Galvanized Fittings, Add	205.35	
23 21 13 23-1769 EA 20" x 16", Grooved Concentric Reducer	6,248.48	209.60
For Galvanized Fittings, Add	182.18	
23 21 13 23-1770 EA 20" x 18", Grooved Concentric Reducer	6,656.07	218.68
For Galvanized Fittings, Add	194.27	
23 21 13 23-1771 EA 24" x 10", Grooved Concentric Reducer	17,778.21	196.99
For Galvanized Fittings, Add	536.73	
23 21 13 23-1772 EA 24" x 12", Grooved Concentric Reducer	17,375.74	210.14
For Galvanized Fittings, Add	523.76	
23 21 13 23-1773 EA 24" x 14", Grooved Concentric Reducer	15,162.48	219.76
For Galvanized Fittings, Add	455.37	
23 21 13 23-1774 EA 24" x 16", Grooved Concentric Reducer	15,177.21	229.65
For Galvanized Fittings, Add	455.37	
23 21 13 23-1775 EA 24" x 18", Grooved Concentric Reducer	13,018.47	238.59
For Galvanized Fittings, Add	388.69	
23 21 13 23-1776 EA 24" x 20", Grooved Concentric Reducer	11,903.91	243.20
For Galvanized Fittings, Add	354.26	
23 21 13 23-1777 Grooved Eccentric Reducers (23 21 13 23-1683)		
Note: Victaulic No. 51		
23 21 13 23-1778 EA 1-1/2" x 3/4", Grooved Eccentric Reducer	406.16	18.56
For Galvanized Fittings, Add	45.48	
23 21 13 23-1779 EA 1-1/2" x 1", Grooved Eccentric Reducer	370.68	19.37
For Galvanized Fittings, Add	41.05	
23 21 13 23-1780 EA 1-1/2" x 1-1/4", Grooved Eccentric Reducer	364.59	20.33
For Galvanized Fittings, Add	40.16	
23 21 13 23-1781 EA 2" x 3/4", Grooved Eccentric Reducer	768.43	22.09
For Galvanized Fittings, Add	88.38	
23 21 13 23-1782 EA 2" x 1", Grooved Eccentric Reducer	411.69	23.03
For Galvanized Fittings, Add	45.33	
23 21 13 23-1783 EA 2" x 1-1/4", Grooved Eccentric Reducer	449.37	23.98
For Galvanized Fittings, Add	49.70	
23 21 13 23-1784 EA 2" x 1-1/2", Grooved Eccentric Reducer	386.15	26.69
For Galvanized Fittings, Add	41.60	
23 21 13 23-1785 EA 2-1/2" x 3/4", Grooved Eccentric Reducer	997.14	24.93
For Galvanized Fittings, Add	115.36	
23 21 13 23-1786 EA 2-1/2" x 1", Grooved Eccentric Reducer	932.88	25.88
For Galvanized Fittings, Add	107.48	
23 21 13 23-1787 EA 2-1/2" x 1-1/4", Grooved Eccentric Reducer	559.35	26.69
For Galvanized Fittings, Add	62.42	
23 21 13 23-1788 EA 2-1/2" x 1-1/2", Grooved Eccentric Reducer	455.52	29.40
For Galvanized Fittings, Add	49.46	
23 21 13 23-1789 EA 2-1/2" x 2", Grooved Eccentric Reducer	215.20	32.92
For Galvanized Fittings, Add	19.92	
23 21 13 23-1790 EA 3" x 1", Grooved Eccentric Reducer	1,003.79	29.81
For Galvanized Fittings, Add	115.29	
23 21 13 23-1791 EA 3" x 1-1/4", Grooved Eccentric Reducer	914.33	30.76
For Galvanized Fittings, Add	104.37	
23 21 13 23-1792 EA 3" x 1-1/2", Grooved Eccentric Reducer	525.39	32.92
For Galvanized Fittings, Add	57.21	
23 21 13 23-1793 EA 3" x 2", Grooved Eccentric Reducer	245.35	36.58
For Galvanized Fittings, Add	22.90	
23 21 13 23-1794 EA 3" x 2-1/2", Grooved Eccentric Reducer	255.86	43.63
For Galvanized Fittings, Add	22.90	
23 21 13 23-1795 EA 3-1/2" x 3", Grooved Eccentric Reducer	1,124.27	47.01
For Galvanized Fittings, Add	126.67	
23 21 13 23-1796 EA 4" x 1", Grooved Eccentric Reducer	1,999.70	36.99
For Galvanized Fittings, Add	333.42	
23 21 13 23-1797 EA 4" x 1-1/2", Grooved Eccentric Reducer	1,236.11	40.24
For Galvanized Fittings, Add	201.65	
23 21 13 23-1798 EA 4" x 2", Grooved Eccentric Reducer	298.63	43.89
For Galvanized Fittings, Add	39.94	
23 21 13 23-1799 EA 4" x 2-1/2", Grooved Eccentric Reducer	303.38	47.01
For Galvanized Fittings, Add	39.94	
23 21 13 23-1800 EA 4" x 3", Grooved Eccentric Reducer	308.79	50.67
For Galvanized Fittings, Add	39.94	
23 21 13 23-1801 EA 5" x 2", Grooved Eccentric Reducer	1,373.11	51.07
For Galvanized Fittings, Add	222.36	
23 21 13 23-1802 EA 5" x 2-1/2", Grooved Eccentric Reducer	1,185.93	54.19
For Galvanized Fittings, Add	189.44	
23 21 13 23-1803 EA 5" x 3", Grooved Eccentric Reducer	1,153.68	57.85
For Galvanized Fittings, Add	182.98	
23 21 13 23-1804 EA 5" x 4", Grooved Eccentric Reducer	414.79	65.03
For Galvanized Fittings, Add	54.40	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1805 EA 6" x 1", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	2,098.21 376.10	55.15
23 21 13 23-1806 EA 6" x 2", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	1,930.89 342.99	61.92
23 21 13 23-1807 EA 6" x 2-1/2", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	2,286.31 408.42	65.03
23 21 13 23-1808 EA 6" x 3", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	525.33 78.81	68.70
23 21 13 23-1809 EA 6" x 4", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	483.51 68.98	75.88
23 21 13 23-1810 EA 6" x 5", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	568.13 82.75	83.19
23 21 13 23-1811 EA 8" x 3", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	2,252.19 398.52	77.77
23 21 13 23-1812 EA 8" x 4", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	1,993.78 348.28	84.95
23 21 13 23-1813 EA 8" x 5", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	1,875.94 324.26	92.13
23 21 13 23-1814 EA 8" x 6", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	904.07 139.88	102.97
23 21 13 23-1815 EA 10" x 4", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	3,566.59 639.10	94.43
23 21 13 23-1816 EA 10" x 5", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	3,379.28 602.13	101.62
23 21 13 23-1817 EA 10" x 6", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	2,602.03 454.06	112.46
23 21 13 23-1818 EA 10" x 8", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	2,241.73 384.31	121.53
23 21 13 23-1819 EA 12" x 4", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	3,643.83 525.53	107.58
23 21 13 23-1820 EA 12" x 6", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	3,439.02 490.54	125.59
23 21 13 23-1821 EA 12" x 8", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	3,369.41 477.98	134.68
23 21 13 23-1822 EA 12" x 10", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	3,053.34 428.13	144.16
23 21 13 23-1823 EA 14" x 6", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	8,405.13 251.81	135.35
23 21 13 23-1824 EA 14" x 8", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	5,460.40 160.99	144.43
23 21 13 23-1825 EA 14" x 10", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	5,222.53 153.25	153.92
23 21 13 23-1826 EA 14" x 12", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	5,242.13 153.25	166.92
23 21 13 23-1827 EA 16" x 8", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	9,289.32 278.09	154.05
23 21 13 23-1828 EA 16" x 10", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	8,615.79 256.97	163.53
23 21 13 23-1829 EA 16" x 12", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	8,130.12 241.46	176.68
23 21 13 23-1830 EA 16" x 14", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	8,144.76 241.46	186.43
23 21 13 23-1831 EA 18" x 10", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	11,643.49 349.51	172.61
23 21 13 23-1832 EA 18" x 12", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	10,968.58 328.19	185.62
23 21 13 23-1833 EA 18" x 14", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	10,005.61 298.18	195.38
23 21 13 23-1834 EA 18" x 16", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	10,020.24 298.18	205.26
23 21 13 23-1835 EA 20" x 10", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	15,267.82 460.57	177.08
23 21 13 23-1836 EA 20" x 12", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	11,382.20 340.68	190.23
23 21 13 23-1837 EA 20" x 14", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	10,703.09 319.38	199.98
23 21 13 23-1838 EA 20" x 16", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	10,549.21 314.21	209.60
23 21 13 23-1839 EA 20" x 18", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	10,170.76 302.18	218.68
23 21 13 23-1840 EA 24" x 12", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	22,032.91 666.74	210.14
23 21 13 23-1841 EA 24" x 14", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	18,839.30 568.25	219.76
23 21 13 23-1842 EA 24" x 16", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	18,854.03 568.25	229.65
23 21 13 23-1843 EA 24" x 18", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	17,816.77 535.99	238.59
23 21 13 23-1844 EA 24" x 20", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	16,296.94 489.12	243.20

23 21 13 23-1845 Close Nipple, Grooved (23 21 13 23-1883)
Note: Victaulic No. 143



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1846 EA 1-1/4" Ductile Iron, Grooved, Close Nipple	66.21	17.88
For Galvanized Fittings, Add	7.04	
For 300 LB Rating, Add	5.87	
For Galvanized Fittings, Add	10.01	
23 21 13 23-1847 EA 1-1/2" Ductile Iron, Grooved, Close Nipple	76.49	22.36
For Galvanized Fittings, Add	7.67	
For 300 LB Rating, Add	6.39	
For Galvanized Fittings, Add	10.91	
23 21 13 23-1848 EA 2" Ductile Iron, Grooved, Close Nipple	96.08	29.51
For Galvanized Fittings, Add	9.25	
For 300 LB Rating, Add	7.71	
For Galvanized Fittings, Add	13.15	
23 21 13 23-1849 EA 2-1/2" Ductile Iron, Grooved, Close Nipple	114.90	35.77
For Galvanized Fittings, Add	10.93	
For 300 LB Rating, Add	9.11	
For Galvanized Fittings, Add	15.54	
23 21 13 23-1850 Grooved Couplings (23 21 13 23-1440)		
23 21 13 23-1851 Flexible Grooved Coupling (23 21 13 23-1850)		
Note: Victaulic Style 77		
23 21 13 23-1852 EA 3/4" Grooved Standard Coupling	40.12	7.31
For Galvanized Fittings, Add	8.13	
23 21 13 23-1853 EA 1" Grooved Standard Coupling	40.12	7.31
For Galvanized Fittings, Add	8.13	
23 21 13 23-1854 EA 1-1/4" Grooved Standard Coupling	52.47	9.21
For Galvanized Fittings, Add	10.82	
23 21 13 23-1855 EA 1-1/2" Grooved Standard Coupling	58.76	10.97
For Galvanized Fittings, Add	11.82	
23 21 13 23-1856 EA 2" Grooved Standard Coupling	66.77	14.77
For Galvanized Fittings, Add	12.50	
23 21 13 23-1857 EA 2-1/2" Grooved Standard Coupling	80.38	18.02
For Galvanized Fittings, Add	14.95	
23 21 13 23-1858 EA 3" Grooved Standard Coupling	85.62	21.54
For Galvanized Fittings, Add	14.95	
23 21 13 23-1859 EA 3-1/2" Grooved Standard Coupling	123.91	25.21
For Galvanized Fittings, Add	24.10	
23 21 13 23-1860 EA 4" Grooved Standard Coupling	129.21	28.73
For Galvanized Fittings, Add	24.10	
23 21 13 23-1861 EA 5" Grooved Standard Coupling	185.88	36.04
For Galvanized Fittings, Add	36.94	
23 21 13 23-1862 EA 6" Grooved Standard Coupling	226.53	47.01
For Galvanized Fittings, Add	43.67	
23 21 13 23-1863 EA 8" Grooved Standard Coupling	338.23	56.09
For Galvanized Fittings, Add	71.18	
23 21 13 23-1864 EA 10" Grooved Standard Coupling	523.33	67.20
For Galvanized Fittings, Add	118.31	
23 21 13 23-1865 EA 12" Grooved Standard Coupling	591.33	73.57
For Galvanized Fittings, Add	134.70	
23 21 13 23-1866 EA 14" Grooved Standard Coupling	731.44	98.10
For Galvanized Fittings, Add	163.64	
23 21 13 23-1867 EA 16" Grooved Standard Coupling	943.00	117.74
For Galvanized Fittings, Add	214.64	
23 21 13 23-1868 EA 18" Grooved Standard Coupling	1,093.79	130.74
For Galvanized Fittings, Add	251.38	
23 21 13 23-1869 EA 20" Grooved Standard Coupling	1,632.86	147.14
For Galvanized Fittings, Add	395.46	
23 21 13 23-1870 EA 24" Grooved Standard Coupling	1,820.26	181.01
For Galvanized Fittings, Add	433.68	
23 21 13 23-1871 Zero-Flex® Rigid Coupling (23 21 13 23-1850)		
Note: Victaulic Style 07		
23 21 13 23-1872 EA 1" Grooved Rigid Coupling	51.47	7.31
For Galvanized Fittings, Add	9.90	
23 21 13 23-1873 EA 1-1/4" Grooved Rigid Coupling	54.24	9.21
For Galvanized Fittings, Add	9.90	
23 21 13 23-1874 EA 1-1/2" Grooved Rigid Coupling	56.93	10.97
For Galvanized Fittings, Add	9.90	
23 21 13 23-1875 EA 2" Grooved Rigid Coupling	63.57	14.77
For Galvanized Fittings, Add	10.15	
23 21 13 23-1876 EA 2-1/2" Grooved Rigid Coupling	74.74	18.02
For Galvanized Fittings, Add	11.70	
23 21 13 23-1877 EA 3" Grooved Rigid Coupling	79.98	21.54
For Galvanized Fittings, Add	11.70	
23 21 13 23-1878 EA 3-1/2" Grooved Rigid Coupling	93.66	25.21
For Galvanized Fittings, Add	13.67	
23 21 13 23-1879 EA 4" Grooved Rigid Coupling	122.24	28.73
For Galvanized Fittings, Add	19.38	
23 21 13 23-1880 EA 5" Grooved Rigid Coupling	156.66	36.04
For Galvanized Fittings, Add	25.17	
23 21 13 23-1881 EA 6" Grooved Rigid Coupling	207.87	47.01
For Galvanized Fittings, Add	33.64	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1882 EA 8" Grooved Rigid Coupling.....	300.31	56.09
For Galvanized Fittings, Add	53.00	
23 21 13 23-1883 EA 10" Grooved Rigid Coupling.....	488.41	67.20
For Galvanized Fittings, Add	94.96	
23 21 13 23-1884 EA 12" Grooved Rigid Coupling.....	544.00	73.57
For Galvanized Fittings, Add	106.27	
23 21 13 23-1885 EA 14" Grooved Rigid Coupling.....	713.69	98.10
For Galvanized Fittings, Add	138.83	
23 21 13 23-1886 EA 16" Grooved Rigid Coupling.....	915.49	117.74
For Galvanized Fittings, Add	181.07	
23 21 13 23-1887 EA 18" Grooved Rigid Coupling.....	1,050.39	130.74
For Galvanized Fittings, Add	209.32	
23 21 13 23-1888 EA 20" Grooved Rigid Coupling.....	1,237.71	147.14
For Galvanized Fittings, Add	249.21	
23 21 13 23-1889 EA 24" Grooved Rigid Coupling.....	1,769.67	181.01
For Galvanized Fittings, Add	367.07	
23 21 13 23-1890 Large Diameter Grooved Coupling (23 21 13 23-1890)		
Note: Victaulic Style 770		
23 21 13 23-1891 EA 28" Grooved Coupling.....	1,851.80	36.04
For Galvanized Fittings, Add	251.70	
23 21 13 23-1892 EA 30" Grooved Coupling.....	2,140.47	47.01
For Galvanized Fittings, Add	289.79	
23 21 13 23-1893 EA 32" Grooved Coupling.....	3,183.80	56.09
For Galvanized Fittings, Add	433.97	
23 21 13 23-1894 EA 36" Grooved Coupling.....	4,230.50	67.20
For Galvanized Fittings, Add	578.16	
23 21 13 23-1895 EA 42" Grooved Coupling.....	8,462.18	73.57
For Galvanized Fittings, Add	1,169.27	
23 21 13 23-1896 Flexible Coupling (23 21 13 23-1896)		
Note: Victaulic Style 75		
23 21 13 23-1897 EA 1-1/2" Grooved Flexible Coupling.....	53.25	10.97
For Galvanized Fittings, Add	9.40	
23 21 13 23-1898 EA 2" Grooved Flexible Coupling.....	59.80	14.77
For Galvanized Fittings, Add	9.64	
23 21 13 23-1899 EA 2-1/2" Grooved Flexible Coupling.....	70.63	18.02
For Galvanized Fittings, Add	11.18	
23 21 13 23-1900 EA 3" Grooved Flexible Coupling.....	82.97	21.54
For Galvanized Fittings, Add	12.99	
23 21 13 23-1901 EA 3-1/2" Grooved Flexible Coupling.....	109.75	25.21
For Galvanized Fittings, Add	18.41	
23 21 13 23-1902 EA 4" Grooved Flexible Coupling.....	115.05	28.73
For Galvanized Fittings, Add	18.41	
23 21 13 23-1903 EA 5" Grooved Flexible Coupling.....	157.69	36.04
For Galvanized Fittings, Add	26.56	
23 21 13 23-1904 EA 6" Grooved Flexible Coupling.....	195.55	47.01
For Galvanized Fittings, Add	31.99	
23 21 13 23-1905 EA 8" Grooved Flexible Coupling.....	280.45	56.09
For Galvanized Fittings, Add	50.29	
23 21 13 23-1906 Installation-Ready™ Coupling (23 21 13 23-1906)		
Note: Victaulic Style 009N		
23 21 13 23-1907 EA 1-1/4" Ductile Iron, Installation-Ready™ Coupling.....	79.27	6.84
For Galvanized Fittings, Add	17.64	
23 21 13 23-1908 EA 1-1/2" Ductile Iron, Installation-Ready™ Coupling.....	82.72	8.18
For Galvanized Fittings, Add	18.00	
23 21 13 23-1909 EA 2" Ductile Iron, Installation-Ready™ Coupling.....	96.21	11.00
For Galvanized Fittings, Add	20.36	
23 21 13 23-1910 EA 2-1/2" Ductile Iron, Installation-Ready™ Coupling.....	111.81	13.33
For Galvanized Fittings, Add	23.45	
23 21 13 23-1911 EA 3" Ductile Iron, Installation-Ready™ Coupling.....	127.94	16.00
For Galvanized Fittings, Add	26.54	
23 21 13 23-1912 EA 4" Ductile Iron, Installation-Ready™ Coupling.....	177.98	21.37
For Galvanized Fittings, Add	37.27	
23 21 13 23-1913 EA 5" Ductile Iron, Installation-Ready™ Coupling.....	278.66	26.73
For Galvanized Fittings, Add	60.97	
23 21 13 23-1914 EA 6" Ductile Iron, Installation-Ready™ Coupling.....	337.54	34.96
For Galvanized Fittings, Add	72.85	
23 21 13 23-1915 EA 8" Ductile Iron, Installation-Ready™ Coupling.....	538.43	41.58
For Galvanized Fittings, Add	121.71	
23 21 13 23-1916 Grooved Strainers And Suction Diffusers (23 21 13 23-1916)		
23 21 13 23-1917 Grooved Wye Strainers (23 21 13 23-1917)		
Note: Victaulic Style 732		
23 21 13 23-1918 EA 2" Grooved Wye Strainer.....	2,089.46	29.81
23 21 13 23-1919 EA 2-1/2" Grooved Wye Strainer.....	2,202.21	36.18
23 21 13 23-1920 EA 3" Grooved Wye Strainer.....	2,478.25	43.36
23 21 13 23-1921 EA 4" Grooved Wye Strainer.....	2,817.51	57.85



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1922 EA 5" Grooved Wye Strainer	4,064.23	72.35
23 21 13 23-1923 EA 6" Grooved Wye Strainer	4,436.25	94.03
23 21 13 23-1924 EA 8" Grooved Wye Strainer	6,752.64	112.05
23 21 13 23-1925 EA 10" Grooved Wye Strainer	10,781.11	131.01
23 21 13 23-1926 EA 12" Grooved Wye Strainer	18,726.52	157.30
23 21 13 23-1927 Grooved Tee Type Strainers (23 21 13 23-1916)		
Note: Victaulic Style 730		
23 21 13 23-1928 EA 1-1/2" Grooved Tee Type Strainer	1,611.77	22.63
23 21 13 23-1929 EA 2" Grooved Tee Type Strainer	2,064.22	29.81
23 21 13 23-1930 EA 2-1/2" Grooved Tee Type Strainer	2,175.98	36.18
23 21 13 23-1931 EA 3" Grooved Tee Type Strainer	2,448.61	43.36
23 21 13 23-1932 EA 4" Grooved Tee Type Strainer	2,783.90	57.85
23 21 13 23-1933 EA 5" Grooved Tee Type Strainer	4,015.31	72.35
23 21 13 23-1934 EA 6" Grooved Tee Type Strainer	4,383.50	94.03
23 21 13 23-1935 EA 8" Grooved Tee Type Strainer	6,670.97	112.05
23 21 13 23-1936 EA 10" Grooved Tee Type Strainer	9,747.38	131.01
23 21 13 23-1937 EA 12" Grooved Tee Type Strainer	12,530.42	157.30
23 21 13 23-1938 EA 14" Grooved Tee Type Strainer	44,089.94	177.08
23 21 13 23-1939 EA 16" Grooved Tee Type Strainer	54,761.24	196.05
23 21 13 23-1940 EA 18" Grooved Tee Type Strainer	71,961.39	214.20
23 21 13 23-1941 Grooved Suction Diffuser (23 21 13 23-1916)		
Note: Victaulic Style 731		
23 21 13 23-1942 EA 2-1/2" Grooved x 2" Flanged Suction Diffuser	4,243.60	33.46
23 21 13 23-1943 EA 3" Grooved x 2" Flanged Suction Diffuser	4,505.69	36.99
23 21 13 23-1944 EA 3" Grooved x 2-1/2" Flanged Suction Diffuser	3,264.39	43.36
23 21 13 23-1945 EA 3" Grooved x 3" Flanged Suction Diffuser	3,312.00	47.01
23 21 13 23-1946 EA 4" Grooved x 2-1/2" Flanged Suction Diffuser	3,585.55	47.01
23 21 13 23-1947 EA 4" Grooved x 3" Flanged Suction Diffuser	3,868.32	50.67
23 21 13 23-1948 EA 4" Grooved x 4" Flanged Suction Diffuser	4,468.39	50.67
23 21 13 23-1949 EA 5" Grooved x 4" Flanged Suction Diffuser	4,993.35	65.03
23 21 13 23-1950 EA 5" Grooved x 5" Flanged Suction Diffuser	5,247.20	68.70
23 21 13 23-1951 EA 6" Grooved x 4" Flanged Suction Diffuser	5,333.76	75.88
23 21 13 23-1952 EA 6" Grooved x 5" Flanged Suction Diffuser	6,368.97	83.19
23 21 13 23-1953 EA 6" Grooved x 6" Flanged Suction Diffuser	6,616.29	88.61
23 21 13 23-1954 EA 8" Grooved x 5" Flanged Suction Diffuser	6,789.47	92.13
23 21 13 23-1955 EA 8" Grooved x 6" Flanged Suction Diffuser	7,168.16	102.97
23 21 13 23-1956 EA 8" Grooved x 8" Flanged Suction Diffuser	12,237.74	112.05
23 21 13 23-1957 EA 10" Grooved x 8" Flanged Suction Diffuser	13,801.39	121.13
23 21 13 23-1958 EA 10" Grooved x 10" Flanged Suction Diffuser	16,599.50	125.59
23 21 13 23-1959 EA 12" Grooved x 10" Flanged Suction Diffuser	19,641.91	144.56
23 21 13 23-1960 EA 12" Grooved x 12" Flanged Suction Diffuser	27,250.40	153.65
23 21 13 23-1961 EA 14" Grooved x 10" Flanged Suction Diffuser	25,377.41	153.65
23 21 13 23-1962 EA 14" Grooved x 12" Flanged Suction Diffuser	28,340.92	167.19
23 21 13 23-1963 EA 14" Grooved x 14" Flanged Suction Diffuser	34,377.23	177.08
23 21 13 23-1964 EA 16" Grooved x 14" Flanged Suction Diffuser	35,393.40	186.16
23 21 13 23-1965 Grooved Steel Valves (23 21 13 23-1440)		
23 21 13 23-1966 Grooved Butterfly Valves With Standard Trim (23 21 13 23-1965)		
23 21 13 23-1967 EA 1-1/2" Butterfly Valve, Grooved, With Standard Trim	294.35	14.77
23 21 13 23-1968 EA 2" Butterfly Valve, Grooved, With Standard Trim	301.34	19.37
23 21 13 23-1969 EA 3" Butterfly Valve, Grooved, With Standard Trim	493.59	28.73
23 21 13 23-1970 EA 4" Butterfly Valve, Grooved, With Standard Trim	662.77	37.80
23 21 13 23-1971 EA 6" Butterfly Valve, Grooved, With Standard Trim	1,440.93	61.92
23 21 13 23-1972 EA 8" Butterfly Valve, Grooved, With Standard Trim	1,997.25	87.12
23 21 13 23-1973 EA 10" Butterfly Valve, Grooved, With Standard Trim	2,995.72	117.74
23 21 13 23-1974 Grooved Butterfly Valves With Stainless Steel Trim (23 21 13 23-1965)		
23 21 13 23-1975 EA 1-1/2" Butterfly Valve, Grooved, With Stainless Steel Trim	440.17	14.77
23 21 13 23-1976 EA 2" Butterfly Valve, Grooved, With Stainless Steel Trim	447.16	19.37
23 21 13 23-1977 EA 3" Butterfly Valve, Grooved, With Stainless Steel Trim	691.26	28.73
23 21 13 23-1978 EA 4" Butterfly Valve, Grooved, With Stainless Steel Trim	879.89	37.80
23 21 13 23-1979 EA 6" Butterfly Valve, Grooved, With Stainless Steel Trim	1,680.73	61.92
23 21 13 23-1980 EA 8" Butterfly Valve, Grooved, With Stainless Steel Trim	2,787.95	87.12
23 21 13 23-1981 EA 10" Butterfly Valve, Grooved, With Stainless Steel Trim	4,389.16	117.74
23 21 13 23-1982 Grooved Ball Valves With Standard Trim And Handle (23 21 13 23-1965)		
Note: Victaulic No. 721		
23 21 13 23-1983 EA 1-1/2" Ball Valve, Grooved, With Standard Trim	249.02	14.49
23 21 13 23-1984 EA 2" Ball Valve, Grooved, With Standard Trim	285.98	19.91
23 21 13 23-1985 EA 2-1/2" Ball Valve, Grooved, With Standard Trim	647.19	24.39
23 21 13 23-1986 EA 3" Ball Valve, Grooved, With Standard Trim	1,058.14	28.86
23 21 13 23-1987 EA 4" Ball Valve, Grooved, With Standard Trim	1,645.83	37.94
23 21 13 23-1988 EA 6" Ball Valve, Grooved, With Standard Trim	5,101.56	62.33

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1989 Grooved Ball Valves With Stainless Steel Trim And Handle <small>(23 21 13 23-1985)</small>		
Note: Victaulic No. 721		
23 21 13 23-1990 EA 1-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	264.99	14.49
23 21 13 23-1991 EA 2" Ball Valve, Grooved, With Stainless Steel Trim.....	451.77	19.91
23 21 13 23-1992 EA 2-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	1,169.96	24.39
23 21 13 23-1993 EA 3" Ball Valve, Grooved, With Stainless Steel Trim.....	1,512.19	28.86
23 21 13 23-1994 EA 4" Ball Valve, Grooved, With Stainless Steel Trim.....	2,065.42	37.94
23 21 13 23-1995 EA 6" Ball Valve, Grooved, With Stainless Steel Trim.....	5,621.49	62.33
23 21 13 23-1996 Grooved Check Valves <small>(23 21 13 23-1965)</small>		
Note: Victaulic No. 712		
23 21 13 23-1997 EA 2" Check Valve, Grooved.....	377.25	19.91
23 21 13 23-1998 EA 2-1/2" Check Valve, Grooved.....	610.33	24.39
23 21 13 23-1999 EA 3" Check Valve, Grooved.....	711.25	28.86
23 21 13 23-2000 EA 4" Check Valve, Grooved.....	1,007.34	37.94
23 21 13 23-2001 Grooved Vic-Check Check Valves <small>(23 21 13 23-1965)</small>		
Note: Victaulic No. 716		
23 21 13 23-2002 EA 2-1/2" "Vic-Check" Check Valve, Grooved.....	489.09	24.39
23 21 13 23-2003 EA 3" "Vic-Check" Check Valve, Grooved.....	495.68	28.86
23 21 13 23-2004 EA 4" "Vic-Check" Check Valve, Grooved.....	621.70	37.94
23 21 13 23-2005 EA 6" "Vic-Check" Check Valve, Grooved.....	1,208.62	62.33
23 21 13 23-2006 EA 8" "Vic-Check" Check Valve, Grooved.....	1,654.17	86.71
23 21 13 23-2007 EA 10" "Vic-Check" Check Valve, Grooved.....	4,588.10	117.47
23 21 13 23-2008 EA 12" "Vic-Check" Check Valve, Grooved.....	5,432.14	135.62
23 21 13 23-2009 Grooved Plug Valves With Lever Operator <small>(23 21 13 23-1965)</small>		
Note: Victaulic No. 377		
23 21 13 23-2010 EA 3" Balancing Plug Valve, Grooved, With Lever Handle.....	603.17	28.86
23 21 13 23-2011 EA 4" Balancing Plug Valve, Grooved, With Lever Handle.....	673.03	37.94
23 21 13 23-2012 EA 6" Balancing Plug Valve, Grooved, With Lever Handle.....	1,198.11	62.33
23 21 13 23-2013 Grooved Plug Valve With Gear Operator <small>(23 21 13 23-1965)</small>		
Note: Victaulic No. 377		
23 21 13 23-2014 EA 3" Balancing Plug Valve, Grooved, With Gear Operator.....	1,054.83	28.86
23 21 13 23-2015 EA 4" Balancing Plug Valve, Grooved, With Gear Operator.....	1,124.72	37.94
23 21 13 23-2016 EA 6" Balancing Plug Valve, Grooved, With Gear Operator.....	1,649.81	62.33
23 21 13 23-2017 EA 8" Balancing Plug Valve, Grooved, With Gear Operator.....	2,208.93	86.71
23 21 13 23-2018 EA 10" Balancing Plug Valve, Grooved, With Gear Operator.....	3,454.72	117.47
23 21 13 23-2019 EA 12" Balancing Plug Valve, Grooved, With Gear Operator.....	4,979.09	135.62
23 21 13 23-2020 Prepare Pipe For Groove <small>(23 21 13 23-1440)</small>		
23 21 13 23-2021 Cut Grooved Pipe <small>(23 21 13 23-2020)</small>		
Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
23 21 13 23-2022 EA Cut 3/4" Groove Pipe.....	14.19	
23 21 13 23-2023 EA Cut 1" Groove Pipe.....	15.41	
23 21 13 23-2024 EA Cut 1-1/4" Groove Pipe.....	17.40	
23 21 13 23-2025 EA Cut 1-1/2" Groove Pipe.....	18.93	
23 21 13 23-2026 EA Cut 2" Groove Pipe.....	20.75	
23 21 13 23-2027 EA Cut 2-1/2" Groove Pipe.....	22.47	
23 21 13 23-2028 EA Cut 3" Groove Pipe.....	24.52	
23 21 13 23-2029 EA Cut 3-1/2" Groove Pipe.....	25.99	
23 21 13 23-2030 EA Cut 4" Groove Pipe.....	27.66	
23 21 13 23-2031 EA Cut 5" Groove Pipe.....	29.96	
23 21 13 23-2032 EA Cut 6" Groove Pipe.....	30.82	
23 21 13 23-2033 EA Cut 8" Groove Pipe.....	39.95	
23 21 13 23-2034 EA Cut 10" Groove Pipe.....	56.78	
23 21 13 23-2035 EA Cut 12" Groove Pipe.....	71.91	
23 21 13 23-2036 EA Cut 14" Groove Pipe.....	107.87	
23 21 13 23-2037 EA Cut 16" Groove Pipe.....	113.55	
23 21 13 23-2038 EA Cut 18" Groove Pipe.....	119.86	
23 21 13 23-2039 EA Cut 20" Groove Pipe.....	126.91	
23 21 13 23-2040 EA Cut 24" Groove Pipe.....	143.83	
23 21 13 23-2041 Roll Grooved Pipe <small>(23 21 13 23-2020)</small>		
Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
23 21 13 23-2042 EA Roll 3/4" Groove.....	8.11	
23 21 13 23-2043 EA Roll 1" Groove.....	9.46	
23 21 13 23-2044 EA Roll 1-1/4" Groove.....	10.79	
23 21 13 23-2045 EA Roll 1-1/2" Groove.....	12.12	
23 21 13 23-2046 EA Roll 2" Groove.....	18.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2047 EA Roll 2-1/2" Groove	19.61	
23 21 13 23-2048 EA Roll 3" Groove	21.57	
23 21 13 23-2049 EA Roll 3-1/2" Groove	22.95	
23 21 13 23-2050 EA Roll 4" Groove	25.08	
23 21 13 23-2051 EA Roll 5" Groove	25.69	
23 21 13 23-2052 EA Roll 6" Groove	26.97	
23 21 13 23-2053 EA Roll 8" Groove	32.69	
23 21 13 23-2054 EA Roll 10" Groove	37.19	
23 21 13 23-2055 EA Roll 12" Groove	46.90	
23 21 13 23-2056 EA Roll 14" Groove	71.91	
23 21 13 23-2057 EA Roll 16" Groove	77.05	
23 21 13 23-2058 EA Roll 18" Groove	79.90	
23 21 13 23-2059 EA Roll 20" Groove	86.30	
23 21 13 23-2060 EA Roll 24" Groove	93.80	
23 21 13 23-2061		
Standard Gaskets (23 21 13 23-2020)		
Note: For use on replacement of existing gaskets.		
23 21 13 23-2062 EA 3/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	26.59	
23 21 13 23-2063 EA 1" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	27.73	
23 21 13 23-2064 EA 1-1/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	29.07	
23 21 13 23-2065 EA 1-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	31.91	
23 21 13 23-2066 EA 2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	32.72	
23 21 13 23-2067 EA 2-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	38.18	
23 21 13 23-2068 EA 3" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	41.90	
23 21 13 23-2069 EA 3-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	51.41	
23 21 13 23-2070 EA 4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	52.06	
23 21 13 23-2071 EA 5" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	64.54	
23 21 13 23-2072 EA 6" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	69.36	
23 21 13 23-2073 EA 8" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	94.00	
23 21 13 23-2074 EA 10" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	117.63	
23 21 13 23-2075 EA 12" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	138.99	
23 21 13 23-2076 EA 14" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	194.35	
23 21 13 23-2077 EA 16" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	258.35	
23 21 13 23-2078 EA 18" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	305.39	
23 21 13 23-2079 EA 20" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	450.88	
23 21 13 23-2080 EA 24" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	616.21	
23 21 13 23-2081		
Copper Grooved-Joint Pipe Fittings (23 21 13 23)		
Note: Couplings are not included with fittings.		
23 21 13 23-2082		
Grooved Fittings (23 21 13 23-2081)		
23 21 13 23-2083		
Grooved 90 Degree Elbows (23 21 13 23-2082)		
23 21 13 23-2084 EA 2" Copper 90 Degree Elbow, Grooved	85.23	22.09
23 21 13 23-2085 EA 2-1/2" Copper 90 Degree Elbow, Grooved	98.25	26.97
23 21 13 23-2086 EA 3" Copper 90 Degree Elbow, Grooved	127.46	32.65
23 21 13 23-2087 EA 4" Copper 90 Degree Elbow, Grooved	228.79	43.09
23 21 13 23-2088 EA 5" Copper 90 Degree Elbow, Grooved	511.76	53.92
23 21 13 23-2089 EA 6" Copper 90 Degree Elbow, Grooved	785.68	70.59
23 21 13 23-2090 EA 8" Copper 90 Degree Elbow, Grooved	1,378.03	84.00
23 21 13 23-2091		
Grooved 45 Degree Elbows (23 21 13 23-2082)		
23 21 13 23-2092 EA 2" Copper 45 Degree Elbow, Grooved	85.23	22.09
23 21 13 23-2093 EA 2-1/2" Copper 45 Degree Elbow, Grooved	98.25	26.97
23 21 13 23-2094 EA 3" Copper 45 Degree Elbow, Grooved	127.46	32.65
23 21 13 23-2095 EA 4" Copper 45 Degree Elbow, Grooved	228.79	43.09
23 21 13 23-2096 EA 5" Copper 45 Degree Elbow, Grooved	511.76	53.92
23 21 13 23-2097 EA 6" Copper 45 Degree Elbow, Grooved	785.68	70.59
23 21 13 23-2098 EA 8" Copper 45 Degree Elbow, Grooved	1,378.03	84.00
23 21 13 23-2099		
Grooved Tees (23 21 13 23-2082)		
23 21 13 23-2100 EA 2" Copper Tee, Grooved	132.25	32.52
23 21 13 23-2101 EA 2-1/2" Copper Tee, Grooved	151.14	39.97
23 21 13 23-2102 EA 3" Copper Tee, Grooved	204.08	49.04
23 21 13 23-2103 EA 4" Copper Tee, Grooved	359.34	63.41
23 21 13 23-2104 EA 5" Copper Tee, Grooved	1,188.75	82.92
23 21 13 23-2105 EA 6" Copper Tee, Grooved	1,011.04	103.79
23 21 13 23-2106 EA 8" Copper Tee, Grooved	1,686.78	126.01
23 21 13 23-2107		
Grooved Reducing Tees (23 21 13 23-2082)		
23 21 13 23-2108 EA 2-1/2" Copper Tee, Reducing, Grooved	186.10	39.97
23 21 13 23-2109 EA 3" Copper Tee, Reducing, Grooved	278.32	49.04
23 21 13 23-2110 EA 4" Copper Tee, Reducing, Grooved	432.26	63.55
23 21 13 23-2111 EA 5" Copper Tee, Reducing, Grooved	1,097.91	83.06
23 21 13 23-2112 EA 6" Copper Tee, Reducing, Grooved	1,345.38	103.79

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2113			Grooved X Cup Reducing Tees (23 21 13 23-2082)		
23 21 13 23-2114	EA		2" Copper Tee, Reducing, Grooved X Cup.....	150.95	32.52
23 21 13 23-2115	EA		2-1/2" Copper Tee, Reducing, Grooved X Cup.....	186.48	39.97
23 21 13 23-2116	EA		3" Copper Tee, Reducing, Grooved X Cup.....	295.15	49.04
23 21 13 23-2117	EA		4" Copper Tee, Reducing, Grooved X Cup.....	432.26	63.41
23 21 13 23-2118			Grooved Flanged Adapter Nipples (23 21 13 23-2082)		
23 21 13 23-2119	EA		2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	224.80	23.98
23 21 13 23-2120	EA		2-1/2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	242.28	29.13
23 21 13 23-2121	EA		3" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	262.32	34.82
23 21 13 23-2122	EA		4" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	305.09	46.88
23 21 13 23-2123	EA		5" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	397.57	56.77
23 21 13 23-2124	EA		6" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	462.46	76.68
23 21 13 23-2125			Grooved Concentric Reducers (23 21 13 23-2082)		
23 21 13 23-2126	EA		2-1/2" x 2" Copper Concentric Reducer, Grooved	108.15	24.66
23 21 13 23-2127	EA		3" x 2" Copper Concentric Reducer, Grooved	113.58	27.51
23 21 13 23-2128	EA		3" x 2-1/2" Copper Concentric Reducer, Grooved	124.09	32.65
23 21 13 23-2129	EA		4" x 2" Copper Concentric Reducer, Grooved	185.77	32.92
23 21 13 23-2130	EA		4" x 2-1/2" Copper Concentric Reducer, Grooved	190.52	35.22
23 21 13 23-2131	EA		4" x 3" Copper Concentric Reducer, Grooved	195.93	37.94
23 21 13 23-2132	EA		5" x 3" Copper Concentric Reducer, Grooved	424.42	43.36
23 21 13 23-2133	EA		5" x 4" Copper Concentric Reducer, Grooved	435.26	48.77
23 21 13 23-2134	EA		6" x 3" Copper Concentric Reducer, Grooved	468.54	51.49
23 21 13 23-2135	EA		6" x 4" Copper Concentric Reducer, Grooved	479.38	56.91
23 21 13 23-2136	EA		6" x 5" Copper Concentric Reducer, Grooved	490.23	62.33
23 21 13 23-2137	EA		8" x 6" Copper Concentric Reducer, Grooved	796.01	77.22
23 21 13 23-2138			Grooved X Cup Concentric Reducers (23 21 13 23-2082)		
23 21 13 23-2139	EA		2" x 1" Copper Concentric Reducer, Grooved X Cup.....	83.17	17.34
23 21 13 23-2140	EA		2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup	84.53	18.02
23 21 13 23-2141	EA		2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup	88.67	20.06
23 21 13 23-2142	EA		2-1/2" x 1" Copper Concentric Reducer, Grooved X Cup	98.18	19.37
23 21 13 23-2143	EA		2-1/2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup	99.52	20.06
23 21 13 23-2144	EA		2-1/2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup	103.50	22.09
23 21 13 23-2145	EA		2-1/2" x 2" Copper Concentric Reducer, Grooved X Cup	108.91	24.66
23 21 13 23-2146	EA		3" x 1-1/2" Copper Concentric Reducer, Grooved X Cup	123.30	24.66
23 21 13 23-2147	EA		3" x 2" Copper Concentric Reducer, Grooved X Cup.....	128.73	27.51
23 21 13 23-2148	EA		4" x 2" Copper Concentric Reducer, Grooved X Cup.....	202.79	32.79
23 21 13 23-2149			Grooved Standard Couplings (23 21 13 23-2082)		
23 21 13 23-2150	EA		2" Copper Standard Coupling, Grooved	36.26	11.11
23 21 13 23-2151	EA		2-1/2" Copper Standard Coupling, Grooved	43.15	13.55
23 21 13 23-2152	EA		3" Copper Standard Coupling, Grooved	50.02	16.12
23 21 13 23-2153	EA		4" Copper Standard Coupling, Grooved	70.41	21.67
23 21 13 23-2154	EA		5" Copper Standard Coupling, Grooved	100.32	26.97
23 21 13 23-2155	EA		6" Copper Standard Coupling, Grooved	131.83	35.22
23 21 13 23-2156	EA		8" Copper Standard Coupling, Grooved	179.36	42.00
23 21 13 23-2157			Grooved Caps (23 21 13 23-2082)		
23 21 13 23-2158	EA		2" Copper Cap, Grooved	50.37	11.11
23 21 13 23-2159	EA		2-1/2" Copper Cap, Grooved	68.86	13.55
23 21 13 23-2160	EA		3" Copper Cap, Grooved	84.19	16.12
23 21 13 23-2161	EA		4" Copper Cap, Grooved	121.12	21.54
23 21 13 23-2162	EA		5" Copper Cap, Grooved	192.19	26.97
23 21 13 23-2163	EA		6" Copper Cap, Grooved	229.70	35.22
23 21 13 23-2164			Grooved Valves (23 21 13 23-2081)		
23 21 13 23-2165			Grooved Butterfly Valves, Standard Trim, Without Operator (23 21 13 23-2164)		
			Note: Copper body.		
23 21 13 23-2166	EA		2" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	484.63	14.49
			For Chain Wheel, Add	43.45	
			For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2167	EA		3" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	553.34	21.54
			For Chain Wheel, Add	43.45	
			For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2168	EA		4" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	731.40	28.31
			For Chain Wheel, Add	43.45	
			For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2169	EA		6" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	979.58	46.47
			For Chain Wheel, Add	43.45	
			For Valve Bracket Insulation, Add	38.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2170 EA 8" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body..... <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	1,085.90 43.45 38.20	65.31
23 21 13 23-2171 Grooved Butterfly Valves, Standard Trim, With Operator (23 21 13 23-2164) Note: Copper body.		
23 21 13 23-2172 EA 2" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body..... <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	590.69 43.45 38.20	14.49
23 21 13 23-2173 EA 3" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body..... <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	659.47 43.45 38.20	21.54
23 21 13 23-2174 EA 4" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body..... <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	837.53 43.45 38.20	28.31
23 21 13 23-2175 EA 6" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body..... <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	1,085.78 43.45 38.20	46.47
23 21 13 23-2176 EA 8" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body..... <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	1,192.03 43.45 38.20	65.31
23 21 13 23-2177 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23)		
Note: Socket or back weld.		
23 21 13 23-2178 Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23-2177)		
Note: ASTM D1785 with D2466 fittings.		
23 21 13 23-2179 Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2178)		
23 21 13 23-2180 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	6.33 1.74	3.87
23 21 13 23-2181 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.92 2.18	4.84
23 21 13 23-2182 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.70 2.32	5.16
23 21 13 23-2183 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.60 2.50	5.55
23 21 13 23-2184 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.91 2.54	5.65
23 21 13 23-2185 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	12.11 3.05	6.76
23 21 13 23-2186 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	15.14 3.61	8.04
23 21 13 23-2187 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	18.59 4.37	9.72
23 21 13 23-2188 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	27.66 6.56	14.56
23 21 13 23-2189 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	39.26 8.74	19.43
23 21 13 23-2190 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	50.11 10.42	23.15
23 21 13 23-2191 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	85.81 11.63	25.87
23 21 13 23-2192 Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows (23 21 13 23-2178)		
23 21 13 23-2193 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	22.69 6.56	14.63
23 21 13 23-2194 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	30.31 8.74	19.37
23 21 13 23-2195 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	38.21 10.84	24.12
23 21 13 23-2196 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	54.95 15.34	34.15
23 21 13 23-2197 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	61.73 17.30	38.48
23 21 13 23-2198 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	79.64 21.97	48.91
23 21 13 23-2199 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	127.87 32.52	72.35
23 21 13 23-2200 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	166.01 42.79	95.11
23 21 13 23-2201 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	211.15 50.81	113.00
23 21 13 23-2202 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	293.63 58.07	129.12
23 21 13 23-2203 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	483.48 67.74	150.66
23 21 13 23-2204 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	722.83 101.01	224.63

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2205 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <small>(23 21 13 23-2178)</small>		
23 21 13 23-2206 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	23.11	14.63
<i>For Work In Restricted Working Space, Add</i>	6.56	
23 21 13 23-2207 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	31.14	19.37
<i>For Work In Restricted Working Space, Add</i>	8.74	
23 21 13 23-2208 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	39.38	24.12
<i>For Work In Restricted Working Space, Add</i>	10.84	
23 21 13 23-2209 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	55.70	34.15
<i>For Work In Restricted Working Space, Add</i>	15.34	
23 21 13 23-2210 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	63.39	38.48
<i>For Work In Restricted Working Space, Add</i>	17.30	
23 21 13 23-2211 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	80.72	48.91
<i>For Work In Restricted Working Space, Add</i>	21.97	
23 21 13 23-2212 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	127.87	72.35
<i>For Work In Restricted Working Space, Add</i>	32.52	
23 21 13 23-2213 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	173.01	95.11
<i>For Work In Restricted Working Space, Add</i>	42.79	
23 21 13 23-2214 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	223.89	113.00
<i>For Work In Restricted Working Space, Add</i>	50.81	
23 21 13 23-2215 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	294.80	129.12
<i>For Work In Restricted Working Space, Add</i>	58.07	
23 21 13 23-2216 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	469.41	150.66
<i>For Work In Restricted Working Space, Add</i>	67.74	
23 21 13 23-2217 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	722.83	224.63
<i>For Work In Restricted Working Space, Add</i>	101.01	
23 21 13 23-2218 Schedule 40 Polyvinyl Chloride (PVC) Tees <small>(23 21 13 23-2178)</small>		
23 21 13 23-2219 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	37.13	24.12
<i>For Work In Restricted Working Space, Add</i>	10.84	
23 21 13 23-2220 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	44.78	29.13
<i>For Work In Restricted Working Space, Add</i>	13.11	
23 21 13 23-2221 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	59.73	38.48
<i>For Work In Restricted Working Space, Add</i>	17.30	
23 21 13 23-2222 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Tees	76.56	48.91
<i>For Work In Restricted Working Space, Add</i>	21.97	
23 21 13 23-2223 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees	91.49	58.26
<i>For Work In Restricted Working Space, Add</i>	26.22	
23 21 13 23-2224 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	114.30	72.35
<i>For Work In Restricted Working Space, Add</i>	32.52	
23 21 13 23-2225 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees	162.27	95.11
<i>For Work In Restricted Working Space, Add</i>	42.79	
23 21 13 23-2226 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	195.09	113.00
<i>For Work In Restricted Working Space, Add</i>	50.81	
23 21 13 23-2227 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	272.43	150.66
<i>For Work In Restricted Working Space, Add</i>	67.74	
23 21 13 23-2228 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	448.55	194.29
<i>For Work In Restricted Working Space, Add</i>	87.41	
23 21 13 23-2229 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	725.95	241.03
<i>For Work In Restricted Working Space, Add</i>	108.39	
23 21 13 23-2230 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	1,966.82	360.12
<i>For Work In Restricted Working Space, Add</i>	161.99	
23 21 13 23-2231 Schedule 40 Polyvinyl Chloride (PVC) Crosses <small>(23 21 13 23-2178)</small>		
23 21 13 23-2232 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses	46.73	30.07
<i>For Work In Restricted Working Space, Add</i>	13.55	
23 21 13 23-2233 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses	56.33	36.45
<i>For Work In Restricted Working Space, Add</i>	16.39	
23 21 13 23-2234 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Crosses	75.34	48.10
<i>For Work In Restricted Working Space, Add</i>	21.62	
23 21 13 23-2235 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses	96.77	61.10
<i>For Work In Restricted Working Space, Add</i>	27.47	
23 21 13 23-2236 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses	115.65	72.89
<i>For Work In Restricted Working Space, Add</i>	32.78	
23 21 13 23-2237 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Crosses	144.76	90.37
<i>For Work In Restricted Working Space, Add</i>	40.65	
23 21 13 23-2238 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses	209.08	118.96
<i>For Work In Restricted Working Space, Add</i>	53.48	
23 21 13 23-2239 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Crosses	252.02	141.17
<i>For Work In Restricted Working Space, Add</i>	63.51	
23 21 13 23-2240 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Crosses	355.36	188.32
<i>For Work In Restricted Working Space, Add</i>	84.68	
23 21 13 23-2241 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Crosses	610.46	242.79
<i>For Work In Restricted Working Space, Add</i>	109.22	
23 21 13 23-2242 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Crosses	1,023.00	301.05
<i>For Work In Restricted Working Space, Add</i>	135.41	
23 21 13 23-2243 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Crosses	2,912.04	450.36
<i>For Work In Restricted Working Space, Add</i>	202.58	
23 21 13 23-2244 Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <small>(23 21 13 23-2178)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2245 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	23.42	14.91
For Work In Restricted Working Space, Add	6.80	
23 21 13 23-2246 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	30.59	19.10
For Work In Restricted Working Space, Add	8.70	
23 21 13 23-2247 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts	40.85	25.61
For Work In Restricted Working Space, Add	11.63	
23 21 13 23-2248 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts	50.50	31.84
For Work In Restricted Working Space, Add	14.50	
23 21 13 23-2249 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	61.84	38.34
For Work In Restricted Working Space, Add	17.45	
23 21 13 23-2250 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts	86.55	53.25
For Work In Restricted Working Space, Add	24.22	
23 21 13 23-2251 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	120.30	73.57
For Work In Restricted Working Space, Add	33.47	
23 21 13 23-2252 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	158.39	91.46
For Work In Restricted Working Space, Add	41.60	
23 21 13 23-2253 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	210.33	106.49
For Work In Restricted Working Space, Add	48.39	
23 21 13 23-2254 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	468.33	123.02
For Work In Restricted Working Space, Add	55.92	
23 21 13 23-2255 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	562.99	165.02
For Work In Restricted Working Space, Add	75.00	
23 21 13 23-2256 Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2178)		
23 21 13 23-2257 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	23.61	14.63
For Work In Restricted Working Space, Add	6.56	
23 21 13 23-2258 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	30.89	19.37
For Work In Restricted Working Space, Add	8.74	
23 21 13 23-2259 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	38.29	24.12
For Work In Restricted Working Space, Add	10.84	
23 21 13 23-2260 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	54.45	34.15
For Work In Restricted Working Space, Add	15.34	
23 21 13 23-2261 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	61.48	38.48
For Work In Restricted Working Space, Add	17.30	
23 21 13 23-2262 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	78.47	48.91
For Work In Restricted Working Space, Add	21.97	
23 21 13 23-2263 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	115.97	72.35
For Work In Restricted Working Space, Add	32.52	
23 21 13 23-2264 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	151.36	95.11
For Work In Restricted Working Space, Add	42.79	
23 21 13 23-2265 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	189.09	113.00
For Work In Restricted Working Space, Add	50.81	
23 21 13 23-2266 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters (23 21 13 23-2178)		
23 21 13 23-2267 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	24.19	14.63
For Work In Restricted Working Space, Add	6.56	
23 21 13 23-2268 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	31.47	19.37
For Work In Restricted Working Space, Add	8.74	
23 21 13 23-2269 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	39.46	24.12
For Work In Restricted Working Space, Add	10.84	
23 21 13 23-2270 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	55.12	34.15
For Work In Restricted Working Space, Add	15.34	
23 21 13 23-2271 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	62.98	38.48
For Work In Restricted Working Space, Add	17.30	
23 21 13 23-2272 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	79.81	48.91
For Work In Restricted Working Space, Add	21.97	
23 21 13 23-2273 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	117.46	72.35
For Work In Restricted Working Space, Add	32.52	
23 21 13 23-2274 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	155.94	95.11
For Work In Restricted Working Space, Add	42.79	
23 21 13 23-2275 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	186.43	113.00
For Work In Restricted Working Space, Add	50.81	
23 21 13 23-2276 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters (23 21 13 23-2178)		
23 21 13 23-2277 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters	22.69	14.63
For Work In Restricted Working Space, Add	6.56	
23 21 13 23-2278 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters	30.22	19.37
For Work In Restricted Working Space, Add	8.74	
23 21 13 23-2279 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....	37.38	24.12
For Work In Restricted Working Space, Add	10.84	
23 21 13 23-2280 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters	53.12	34.15
For Work In Restricted Working Space, Add	15.34	
23 21 13 23-2281 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters	59.98	38.48
For Work In Restricted Working Space, Add	17.30	
23 21 13 23-2282 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....	76.39	48.91
For Work In Restricted Working Space, Add	21.97	
23 21 13 23-2283 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters	122.12	72.35
For Work In Restricted Working Space, Add	32.52	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2284 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	161.10 42.79	95.11
23 21 13 23-2285 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	199.91 50.81	113.00
23 21 13 23-2286 Schedule 40 Polyvinyl Chloride (PVC) P-Traps (23 21 13 23-2178)		
23 21 13 23-2287 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) P-Traps..... <i>For Work In Restricted Working Space, Add</i>	35.88 8.94	19.91
23 21 13 23-2288 Schedule 40 Polyvinyl Chloride (PVC) Couplings (23 21 13 23-2178)		
23 21 13 23-2289 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	22.36 6.56	14.63
23 21 13 23-2290 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	29.81 8.74	19.37
23 21 13 23-2291 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	37.38 10.84	24.12
23 21 13 23-2292 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	52.79 15.34	34.15
23 21 13 23-2293 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	59.48 17.30	38.48
23 21 13 23-2294 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	76.06 21.97	48.91
23 21 13 23-2295 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	114.72 32.52	72.35
23 21 13 23-2296 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	152.53 42.79	95.11
23 21 13 23-2297 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	183.76 50.81	113.00
23 21 13 23-2298 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	239.18 58.07	129.12
23 21 13 23-2299 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	311.06 67.74	150.66
23 21 13 23-2300 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	633.32 72.61	161.50
23 21 13 23-2301 Schedule 40 Polyvinyl Chloride (PVC) Unions (23 21 13 23-2178)		
23 21 13 23-2302 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	42.24 10.84	24.12
23 21 13 23-2303 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	57.77 13.11	29.13
23 21 13 23-2304 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	73.38 17.30	38.48
23 21 13 23-2305 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	111.53 21.97	48.91
23 21 13 23-2306 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	127.37 26.22	58.26
23 21 13 23-2307 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	162.25 32.52	72.35
23 21 13 23-2308 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	240.36 42.79	95.11
23 21 13 23-2309 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	272.93 50.81	113.00
23 21 13 23-2310 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	431.19 67.74	150.66
23 21 13 23-2311 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	566.56 87.38	194.29
23 21 13 23-2312 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	815.32 108.33	240.90
23 21 13 23-2313 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	1,197.06 134.52	299.02
23 21 13 23-2314 Schedule 40 Polyvinyl Chloride (PVC) Caps (23 21 13 23-2178)		
23 21 13 23-2315 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	10.62 2.99	6.58
23 21 13 23-2316 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	13.95 3.94	8.67
23 21 13 23-2317 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	17.58 4.88	10.70
23 21 13 23-2318 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	25.09 6.98	15.35
23 21 13 23-2319 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	27.95 7.79	17.07
23 21 13 23-2320 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	35.36 9.89	21.82
23 21 13 23-2321 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	56.68 14.63	32.25
23 21 13 23-2322 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	72.75 19.25	42.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2323 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	95.86 22.86	50.27
23 21 13 23-2324 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	134.14 26.13	57.45
23 21 13 23-2325 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	258.97 30.49	67.07
23 21 13 23-2326 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	733.70 45.45	99.99
23 21 13 23-2327 Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges (23 21 13 23-2178)		
23 21 13 23-2328 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Socket Weld Flanges <i>For Work In Restricted Working Space, Add</i>	52.86 10.84	24.12
23 21 13 23-2329 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	69.34 13.11	29.13
23 21 13 23-2330 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	86.20 17.30	38.48
23 21 13 23-2331 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	102.62 21.97	48.91
23 21 13 23-2332 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	117.46 26.22	58.26
23 21 13 23-2333 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	148.35 32.52	72.35
23 21 13 23-2334 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	204.31 42.79	95.11
23 21 13 23-2335 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	237.46 50.81	113.00
23 21 13 23-2336 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	312.06 67.74	150.66
23 21 13 23-2337 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	426.86 87.38	194.29
23 21 13 23-2338 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	667.05 108.33	240.90
23 21 13 23-2339 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	1,137.25 134.31	298.61
23 21 13 23-2340 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23-2177) Note: ASTM D1785 with D2467 fittings.		
23 21 13 23-2341 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2340)		
23 21 13 23-2342 LF 1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	6.47 1.74	3.93
23 21 13 23-2343 LF 3/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.11 2.18	4.88
23 21 13 23-2344 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.97 2.61	5.82
23 21 13 23-2345 LF 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.89 3.06	6.78
23 21 13 23-2346 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.66 3.49	7.72
23 21 13 23-2347 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	17.52 4.37	9.76
23 21 13 23-2348 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	20.43 4.81	10.70
23 21 13 23-2349 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	23.32 5.24	11.65
23 21 13 23-2350 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	30.43 6.56	14.63
23 21 13 23-2351 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	45.43 8.74	19.37
23 21 13 23-2352 LF 8" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	59.56 10.42	23.16
23 21 13 23-2353 LF 10" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	113.89 11.23	24.93
23 21 13 23-2354 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows (23 21 13 23-2340)		
23 21 13 23-2355 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	24.86 6.56 3.28	14.63
23 21 13 23-2356 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	33.05 8.74 4.37	19.37
23 21 13 23-2357 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	42.46 10.84 5.42	24.12
23 21 13 23-2358 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	59.53 15.34 7.67	34.15
23 21 13 23-2359 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	66.64 17.30 8.65	38.48

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2360 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	84.14	48.91
For Work In Restricted Working Space, Add	21.97	
For Threaded Fittings, Add	10.98	
23 21 13 23-2361 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	133.95	72.35
For Work In Restricted Working Space, Add	32.52	
For Threaded Fittings, Add	16.26	
23 21 13 23-2362 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	171.34	95.11
For Work In Restricted Working Space, Add	42.79	
For Threaded Fittings, Add	21.39	
23 21 13 23-2363 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	212.98	113.00
For Work In Restricted Working Space, Add	50.81	
For Threaded Fittings, Add	25.40	
23 21 13 23-2364 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	351.16	129.12
For Work In Restricted Working Space, Add	58.07	
For Threaded Fittings, Add	29.03	
23 21 13 23-2365 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	568.40	150.66
For Work In Restricted Working Space, Add	67.74	
For Threaded Fittings, Add	33.87	
23 21 13 23-2366 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	722.83	224.63
For Work In Restricted Working Space, Add	101.01	
For Threaded Fittings, Add	50.51	
23 21 13 23-2367 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows (23 21 13 23-2340)		
23 21 13 23-2368 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	27.60	14.63
For Work In Restricted Working Space, Add	6.56	
For Threaded Fittings, Add	3.28	
23 21 13 23-2369 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	37.88	19.37
For Work In Restricted Working Space, Add	8.74	
For Threaded Fittings, Add	4.37	
23 21 13 23-2370 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	49.28	24.12
For Work In Restricted Working Space, Add	10.84	
For Threaded Fittings, Add	5.42	
23 21 13 23-2371 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	67.94	34.15
For Work In Restricted Working Space, Add	15.34	
For Threaded Fittings, Add	7.67	
23 21 13 23-2372 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	77.46	38.48
For Work In Restricted Working Space, Add	17.30	
For Threaded Fittings, Add	8.65	
23 21 13 23-2373 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	98.96	48.91
For Work In Restricted Working Space, Add	21.97	
For Threaded Fittings, Add	10.98	
23 21 13 23-2374 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	162.51	72.35
For Work In Restricted Working Space, Add	32.52	
For Threaded Fittings, Add	16.26	
23 21 13 23-2375 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	208.48	95.11
For Work In Restricted Working Space, Add	42.79	
For Threaded Fittings, Add	21.39	
23 21 13 23-2376 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	288.00	113.00
For Work In Restricted Working Space, Add	50.81	
For Threaded Fittings, Add	25.40	
23 21 13 23-2377 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	342.93	129.12
For Work In Restricted Working Space, Add	58.07	
For Threaded Fittings, Add	29.03	
23 21 13 23-2378 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	549.68	150.66
For Work In Restricted Working Space, Add	67.74	
For Threaded Fittings, Add	33.87	
23 21 13 23-2379 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	701.79	224.63
For Work In Restricted Working Space, Add	101.01	
For Threaded Fittings, Add	50.51	
23 21 13 23-2380 Schedule 80 Polyvinyl Chloride (PVC) Tees (23 21 13 23-2340)		
23 21 13 23-2381 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees.....	42.88	22.90
For Work In Restricted Working Space, Add	10.29	
For Threaded Fittings, Add	5.15	
23 21 13 23-2382 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Tees.....	52.69	29.13
For Work In Restricted Working Space, Add	13.11	
For Threaded Fittings, Add	6.56	
23 21 13 23-2383 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees.....	68.89	38.48
For Work In Restricted Working Space, Add	17.30	
For Threaded Fittings, Add	8.65	
23 21 13 23-2384 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Tees	104.29	48.91
For Work In Restricted Working Space, Add	21.97	
For Threaded Fittings, Add	10.98	
23 21 13 23-2385 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees	118.47	58.26
For Work In Restricted Working Space, Add	26.22	
For Threaded Fittings, Add	13.11	
23 21 13 23-2386 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees.....	147.27	72.35
For Work In Restricted Working Space, Add	32.52	
For Threaded Fittings, Add	16.26	
23 21 13 23-2387 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees	184.92	95.11
For Work In Restricted Working Space, Add	42.79	
For Threaded Fittings, Add	21.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2388 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	222.15 50.81 25.40	113.00
23 21 13 23-2389 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	287.00 67.74 33.87	150.66
23 21 13 23-2390 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	500.43 87.41 43.71	194.29
23 21 13 23-2391 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	846.20 108.39 54.20	241.03
23 21 13 23-2392 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,966.92 161.99 80.99	360.12
23 21 13 23-2393 Schedule 80 Polyvinyl Chloride (PVC) Crosses <small>(23 21 13 23-2340)</small>		
23 21 13 23-2394 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	56.32 12.86 6.43	28.58
23 21 13 23-2395 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	68.72 16.39 8.19	36.45
23 21 13 23-2396 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	89.69 21.62 10.81	48.10
23 21 13 23-2397 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	140.23 27.47 13.73	61.10
23 21 13 23-2398 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	157.94 32.78 16.39	72.89
23 21 13 23-2399 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	196.44 40.65 20.32	90.37
23 21 13 23-2400 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	244.59 53.48 26.74	118.96
23 21 13 23-2401 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	294.45 63.51 31.76	141.17
23 21 13 23-2402 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	378.20 84.68 42.34	188.32
23 21 13 23-2403 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	691.79 109.22 54.61	242.79
23 21 13 23-2404 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,211.50 135.41 67.71	301.05
23 21 13 23-2405 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	2,912.19 202.58 101.29	450.36
23 21 13 23-2406 Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <small>(23 21 13 23-2340)</small>		
23 21 13 23-2407 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	30.89 8.74	19.37
23 21 13 23-2408 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	41.21 10.84	24.12
23 21 13 23-2409 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	59.11 15.34	34.15
23 21 13 23-2410 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	68.56 17.30	38.48
23 21 13 23-2411 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	88.80 21.97	48.91
23 21 13 23-2412 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	135.36 32.52	72.35
23 21 13 23-2413 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	185.49 42.79	95.11
23 21 13 23-2414 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	228.80 50.81	113.00
23 21 13 23-2415 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	259.49 58.07	129.12
23 21 13 23-2416 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	372.16 67.74	150.66
23 21 13 23-2417 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	575.35 78.70	174.92
23 21 13 23-2418 Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <small>(23 21 13 23-2340)</small>		
23 21 13 23-2419 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	22.44 6.56	14.63

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2420	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	32.39 8.74	19.37
23 21	13 23-2421	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	41.21 10.84	24.12
23 21	13 23-2422	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	61.44 15.34	34.15
23 21	13 23-2423	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	70.64 17.30	38.48
23 21	13 23-2424	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	89.13 21.97	48.91
23 21	13 23-2425	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	142.02 32.52	72.35
23 21	13 23-2426	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	204.89 42.79	95.11
23 21	13 23-2427	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	265.10 50.81	113.00
23 21 13 23-2428 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <small>(23 21 13 23-2340)</small>					
23 21	13 23-2429	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	28.94 6.56	14.63
23 21	13 23-2430	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	36.97 8.74	19.37
23 21	13 23-2431	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	49.78 10.84	24.12
23 21	13 23-2432	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	67.11 15.34	34.15
23 21	13 23-2433	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	80.63 17.30	38.48
23 21	13 23-2434	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	103.20 21.97	48.91
23 21	13 23-2435	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	142.52 32.52	72.35
23 21	13 23-2436	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	180.50 42.79	95.11
23 21	13 23-2437	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	236.71 50.81	113.00
23 21 13 23-2438 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <small>(23 21 13 23-2340)</small>					
23 21	13 23-2439	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	27.02 6.56	14.63
23 21	13 23-2440	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	36.80 8.74	19.37
23 21	13 23-2441	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	47.45 10.84	24.12
23 21	13 23-2442	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	69.52 15.34	34.15
23 21	13 23-2443	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	80.21 17.30	38.48
23 21	13 23-2444	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	112.52 21.97	48.91
23 21	13 23-2445	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	170.50 32.52	72.35
23 21	13 23-2446	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	212.55 42.79	95.11
23 21	13 23-2447	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	289.57 50.81	113.00
23 21 13 23-2448 Schedule 80 Polyvinyl Chloride (PVC) Couplings <small>(23 21 13 23-2340)</small>					
23 21	13 23-2449	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	27.35 6.56 3.28	14.63
23 21	13 23-2450	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	36.55 8.74 4.37	19.37
23 21	13 23-2451	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	43.79 10.84 5.42	24.12
23 21	13 23-2452	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	62.86 15.34 7.67	34.15
23 21	13 23-2453	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	70.30 17.30 8.65	38.48
23 21	13 23-2454	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	86.72 21.97 10.98	48.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2455 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	141.77 32.52 16.26	72.35
23 21 13 23-2456 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	181.00 42.79 21.39	95.11
23 21 13 23-2457 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	217.48 50.81 25.40	113.00
23 21 13 23-2458 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	297.04 58.07 29.03	129.12
23 21 13 23-2459 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	366.67 67.74 33.87	150.66
23 21 13 23-2460 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	658.29 72.61 36.31	161.50
23 21 13 23-2461 Schedule 80 Polyvinyl Chloride (PVC) Unions <small>(23 21 13 23-2340)</small>		
23 21 13 23-2462 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	48.45 10.84	24.12
23 21 13 23-2463 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	57.94 13.11	29.13
23 21 13 23-2464 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	73.88 17.30	38.48
23 21 13 23-2465 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	113.86 21.97	48.91
23 21 13 23-2466 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	139.69 26.22	58.26
23 21 13 23-2467 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	179.24 32.52	72.35
23 21 13 23-2468 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	274.53 42.79	95.11
23 21 13 23-2469 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	339.39 50.81	113.00
23 21 13 23-2470 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	431.69 67.74	150.66
23 21 13 23-2471 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	566.56 87.38	194.29
23 21 13 23-2472 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	815.32 108.33	240.90
23 21 13 23-2473 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	1,196.36 134.31	298.61
23 21 13 23-2474 Schedule 80 Polyvinyl Chloride (PVC) Threaded Unions <small>(23 21 13 23-2340)</small>		
23 21 13 23-2475 EA 1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	52.36	30.10
23 21 13 23-2476 EA 3/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	62.22	34.82
23 21 13 23-2477 EA 1", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	75.10	41.06
23 21 13 23-2478 EA 1-1/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	98.95	48.91
23 21 13 23-2479 EA 1-1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	119.11	58.26
23 21 13 23-2480 EA 2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	156.80	72.35
23 21 13 23-2481 EA 3", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	332.92	140.23
23 21 13 23-2482 EA 4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	361.83	155.54
23 21 13 23-2483 Schedule 80 Polyvinyl Chloride (PVC) Caps <small>(23 21 13 23-2340)</small>		
23 21 13 23-2484 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	17.58 2.95 1.48	6.51
23 21 13 23-2485 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	21.28 3.94 1.97	8.67
23 21 13 23-2486 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	30.74 4.88 2.44	10.70
23 21 13 23-2487 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	40.48 6.90 3.45	15.18
23 21 13 23-2488 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	43.43 7.79 3.89	17.07
23 21 13 23-2489 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	59.17 9.89 4.94	21.82
23 21 13 23-2490 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	102.63 14.63 7.32	32.25
23 21 13 23-2491 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	130.03 19.25 9.63	42.40

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2492 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	182.11 22.86 11.43	50.27
23 21 13 23-2493 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	350.18 26.13 13.07	57.45
23 21 13 23-2494 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	463.02 30.49 15.24	67.07
23 21 13 23-2495 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	816.95 45.45 22.73	99.99
23 21 13 23-2496 Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges (23 21 13 23-2340)		
23 21 13 23-2497 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	60.02 10.84 5.42	24.12
23 21 13 23-2498 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	69.34 13.11 6.56	29.13
23 21 13 23-2499 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	86.21 17.30 8.65	38.48
23 21 13 23-2500 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	102.62 21.97 10.98	48.91
23 21 13 23-2501 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	117.46 26.22 13.11	58.26
23 21 13 23-2502 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	148.35 32.52 16.26	72.35
23 21 13 23-2503 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	204.31 42.79 21.39	95.11
23 21 13 23-2504 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	237.46 50.81 25.40	113.00
23 21 13 23-2505 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	312.06 67.74 33.87	150.66
23 21 13 23-2506 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	426.87 87.38 43.69	194.29
23 21 13 23-2507 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	667.06 108.33 54.17	240.90
23 21 13 23-2508 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,137.25 134.31 67.15	298.61
23 21 13 23-2509 Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2177) Note: In place pipe.		
23 21 13 23-2510 EA 1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.36 2.21	
23 21 13 23-2511 EA 3/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.94 2.38	
23 21 13 23-2512 EA 1", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.94 2.68	
23 21 13 23-2513 EA 1-1/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.38 2.81	
23 21 13 23-2514 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.93 2.98	
23 21 13 23-2515 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	10.93 3.28	
23 21 13 23-2516 EA 2-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.77 3.53	
23 21 13 23-2517 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.90 4.17	
23 21 13 23-2518 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	18.76 5.63	
23 21 13 23-2519 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	26.81 8.04	
23 21 13 23-2520 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	35.76 10.73	
23 21 13 23-2521 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	43.72 13.12	
23 21 13 23-2522 Polyethylene Pipe And Fittings (23 21 13 23)		
23 21 13 23-2523 Small Diameter Tubing (23 21 13 23-2522)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2524				Tubing <small>(23 21 13 23-2523)</small>		
23 21 13 23-2525	LF			1/4" Polyethylene Tubing.....	4.29	
				<i>For Work In Restricted Working Space, Add</i>	1.23	
23 21 13 23-2526	LF			5/16" Polyethylene Tubing.....	4.55	
				<i>For Work In Restricted Working Space, Add</i>	1.25	
23 21 13 23-2527	LF			3/8" Polyethylene Tubing.....	4.74	
				<i>For Work In Restricted Working Space, Add</i>	1.28	
23 21 13 23-2528	LF			1/2" Polyethylene Tubing.....	4.97	
				<i>For Work In Restricted Working Space, Add</i>	1.38	
23 21 13 23-2529				Chrome Plated Pipe <small>(23 21 13 23)</small>		
23 21 13 23-2530				Chrome Plated Nipples <small>(23 21 13 23-2529)</small>		
23 21 13 23-2531				Close <small>(23 21 13 23-2530)</small>		
23 21 13 23-2532	EA			1/4" Diameter Chrome Plated Nipple, Close.....	24.96	11.77
23 21 13 23-2533	EA			3/8" Diameter Chrome Plated Nipple, Close.....	24.29	12.80
23 21 13 23-2534	EA			1/2" Diameter Chrome Plated Nipple, Close.....	29.87	14.72
23 21 13 23-2535	EA			3/4" Diameter Chrome Plated Nipple, Close.....	39.01	18.69
23 21 13 23-2536	EA			1" Diameter Chrome Plated Nipple, Close.....	52.12	24.57
23 21 13 23-2537	EA			1-1/4" Diameter Chrome Plated Nipple, Close.....	73.71	34.28
23 21 13 23-2538	EA			1-1/2" Diameter Chrome Plated Nipple, Close.....	89.48	40.18
23 21 13 23-2539	EA			2" Diameter Chrome Plated Nipple, Close.....	114.83	50.04
23 21 13 23-2540				1-1/2" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2541	EA			1/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	26.58	12.22
23 21 13 23-2542	EA			3/8" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	25.58	13.24
23 21 13 23-2543	EA			1/2" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	30.65	15.16
23 21 13 23-2544	EA			3/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	40.34	19.13
23 21 13 23-2545				2" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2546	EA			1/4" Diameter, 2" Length, Chrome Plated Nipple.....	27.64	12.80
23 21 13 23-2547	EA			3/8" Diameter, 2" Length, Chrome Plated Nipple.....	26.47	13.68
23 21 13 23-2548	EA			1/2" Diameter, 2" Length, Chrome Plated Nipple.....	32.83	15.74
23 21 13 23-2549	EA			3/4" Diameter, 2" Length, Chrome Plated Nipple.....	42.22	19.58
23 21 13 23-2550	EA			1" Diameter, 2" Length, Chrome Plated Nipple.....	55.00	25.46
23 21 13 23-2551	EA			1-1/4" Diameter, 2" Length, Chrome Plated Nipple.....	78.26	35.32
23 21 13 23-2552	EA			1-1/2" Diameter, 2" Length, Chrome Plated Nipple.....	94.71	41.20
23 21 13 23-2553				2-1/2" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2554	EA			1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	29.17	13.24
23 21 13 23-2555	EA			3/8" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	27.44	14.28
23 21 13 23-2556	EA			1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	34.19	16.19
23 21 13 23-2557	EA			3/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	43.24	20.16
23 21 13 23-2558	EA			1" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	56.51	26.05
23 21 13 23-2559	EA			1-1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	82.52	35.76
23 21 13 23-2560	EA			1-1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	100.35	41.64
23 21 13 23-2561	EA			2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	127.23	51.51
23 21 13 23-2562				3" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2563	EA			1/4" Diameter, 3" Length, Chrome Plated Nipple.....	30.38	13.68
23 21 13 23-2564	EA			3/8" Diameter, 3" Length, Chrome Plated Nipple.....	28.97	14.72
23 21 13 23-2565	EA			1/2" Diameter, 3" Length, Chrome Plated Nipple.....	33.68	15.74
23 21 13 23-2566	EA			3/4" Diameter, 3" Length, Chrome Plated Nipple.....	46.38	20.60
23 21 13 23-2567	EA			1" Diameter, 3" Length, Chrome Plated Nipple.....	62.77	26.49
23 21 13 23-2568	EA			1-1/4" Diameter, 3" Length, Chrome Plated Nipple.....	87.15	36.35
23 21 13 23-2569	EA			1-1/2" Diameter, 3" Length, Chrome Plated Nipple.....	113.44	42.24
23 21 13 23-2570	EA			2" Diameter, 3" Length, Chrome Plated Nipple.....	137.53	52.09
23 21 13 23-2571				3-1/2" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2572	EA			1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	31.72	14.28
23 21 13 23-2573	EA			3/8" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	31.51	15.16
23 21 13 23-2574	EA			1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	37.08	17.22
23 21 13 23-2575	EA			3/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	50.97	21.04
23 21 13 23-2576	EA			1" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	65.28	26.93
23 21 13 23-2577	EA			1-1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	96.13	36.79
23 21 13 23-2578	EA			1-1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	117.47	42.68
23 21 13 23-2579	EA			2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	145.75	52.53
23 21 13 23-2580				4" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2581	EA			1/4" Diameter, 4" Length, Chrome Plated Nipple.....	33.05	14.72
23 21 13 23-2582	EA			3/8" Diameter, 4" Length, Chrome Plated Nipple.....	32.32	15.74
23 21 13 23-2583	EA			1/2" Diameter, 4" Length, Chrome Plated Nipple.....	37.24	16.63

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2584 EA 3/4" Diameter, 4" Length, Chrome Plated Nipple.....	52.85	21.64
23 21 13 23-2585 EA 1" Diameter, 4" Length, Chrome Plated Nipple.....	67.66	27.52
23 21 13 23-2586 EA 1-1/4" Diameter, 4" Length, Chrome Plated Nipple.....	103.00	37.23
23 21 13 23-2587 EA 1-1/2" Diameter, 4" Length, Chrome Plated Nipple.....	125.59	43.12
23 21 13 23-2588 EA 2" Diameter, 4" Length, Chrome Plated Nipple.....	155.76	52.98
23 21 13 23-2589 4-1/2" Nipples (23 21 13 23-2530)		
23 21 13 23-2590 EA 1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	34.26	15.16
23 21 13 23-2591 EA 3/8" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	34.84	16.19
23 21 13 23-2592 EA 1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	40.80	18.10
23 21 13 23-2593 EA 3/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	55.00	22.08
23 21 13 23-2594 EA 1" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	75.59	27.96
23 21 13 23-2595 EA 1-1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	109.59	37.82
23 21 13 23-2596 EA 1-1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	129.27	43.71
23 21 13 23-2597 EA 2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	164.98	53.57
23 21 13 23-2598 5" Nipples (23 21 13 23-2530)		
23 21 13 23-2599 EA 1/4" Diameter, 5" Length, Chrome Plated Nipple.....	38.08	15.74
23 21 13 23-2600 EA 3/8" Diameter, 5" Length, Chrome Plated Nipple.....	36.47	16.63
23 21 13 23-2601 EA 1/2" Diameter, 5" Length, Chrome Plated Nipple.....	42.23	18.69
23 21 13 23-2602 EA 3/4" Diameter, 5" Length, Chrome Plated Nipple.....	57.06	22.51
23 21 13 23-2603 EA 1" Diameter, 5" Length, Chrome Plated Nipple.....	80.46	28.40
23 21 13 23-2604 EA 1-1/4" Diameter, 5" Length, Chrome Plated Nipple.....	115.60	38.27
23 21 13 23-2605 EA 1-1/2" Diameter, 5" Length, Chrome Plated Nipple.....	137.43	44.15
23 21 13 23-2606 EA 2" Diameter, 5" Length, Chrome Plated Nipple.....	170.97	54.01
23 21 13 23-2607 5-1/2" Nipples (23 21 13 23-2530)		
23 21 13 23-2608 EA 1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	39.32	16.19
23 21 13 23-2609 EA 3/8" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	37.78	17.22
23 21 13 23-2610 EA 1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	46.04	19.13
23 21 13 23-2611 EA 3/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	59.12	23.10
23 21 13 23-2612 EA 1" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	83.06	28.99
23 21 13 23-2613 EA 1-1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	122.84	38.70
23 21 13 23-2614 EA 1-1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	143.95	44.59
23 21 13 23-2615 EA 2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	178.58	54.45
23 21 13 23-2616 6" Nipples (23 21 13 23-2530)		
23 21 13 23-2617 EA 1/4" Diameter, 6" Length, Chrome Plated Nipple.....	40.75	16.63
23 21 13 23-2618 EA 3/8" Diameter, 6" Length, Chrome Plated Nipple.....	38.56	17.66
23 21 13 23-2619 EA 1/2" Diameter, 6" Length, Chrome Plated Nipple.....	47.37	19.58
23 21 13 23-2620 EA 3/4" Diameter, 6" Length, Chrome Plated Nipple.....	60.81	23.55
23 21 13 23-2621 EA 1" Diameter, 6" Length, Chrome Plated Nipple.....	90.76	29.43
23 21 13 23-2622 EA 1-1/4" Diameter, 6" Length, Chrome Plated Nipple.....	127.35	39.29
23 21 13 23-2623 EA 1-1/2" Diameter, 6" Length, Chrome Plated Nipple.....	153.93	45.18
23 21 13 23-2624 EA 2" Diameter, 6" Length, Chrome Plated Nipple.....	185.56	55.04
23 21 13 23-2625 8" Nipples (23 21 13 23-2530)		
23 21 13 23-2626 EA 3/8" Diameter, 8" Length, Chrome Plated Nipple.....	45.52	18.69
23 21 13 23-2627 EA 1/2" Diameter, 8" Length, Chrome Plated Nipple.....	65.90	20.60
23 21 13 23-2628 EA 3/4" Diameter, 8" Length, Chrome Plated Nipple.....	80.01	24.57
23 21 13 23-2629 EA 1" Diameter, 8" Length, Chrome Plated Nipple.....	105.92	30.46
23 21 13 23-2630 EA 1-1/4" Diameter, 8" Length, Chrome Plated Nipple.....	151.29	40.18
23 21 13 23-2631 EA 1-1/2" Diameter, 8" Length, Chrome Plated Nipple.....	185.17	46.06
23 21 13 23-2632 EA 2" Diameter, 8" Length, Chrome Plated Nipple.....	227.98	55.92
23 21 13 23-2633 10" Nipples (23 21 13 23-2530)		
23 21 13 23-2634 EA 3/8" Diameter, 10" Length, Chrome Plated Nipple.....	51.95	18.69
23 21 13 23-2635 EA 1/2" Diameter, 10" Length, Chrome Plated Nipple.....	73.99	20.60
23 21 13 23-2636 EA 3/4" Diameter, 10" Length, Chrome Plated Nipple.....	89.39	24.57
23 21 13 23-2637 EA 1" Diameter, 10" Length, Chrome Plated Nipple.....	120.11	30.46
23 21 13 23-2638 EA 1-1/4" Diameter, 10" Length, Chrome Plated Nipple.....	181.66	40.18
23 21 13 23-2639 EA 1-1/2" Diameter, 10" Length, Chrome Plated Nipple.....	208.31	46.06
23 21 13 23-2640 EA 2" Diameter, 10" Length, Chrome Plated Nipple.....	264.97	55.92
23 21 13 23-2641 12" Nipples (23 21 13 23-2530)		
23 21 13 23-2642 EA 3/8" Diameter, 12" Length, Chrome Plated Nipple.....	57.92	20.60
23 21 13 23-2643 EA 1/2" Diameter, 12" Length, Chrome Plated Nipple.....	77.46	21.64
23 21 13 23-2644 EA 3/4" Diameter, 12" Length, Chrome Plated Nipple.....	98.42	25.46
23 21 13 23-2645 EA 1" Diameter, 12" Length, Chrome Plated Nipple.....	140.34	32.37
23 21 13 23-2646 EA 1-1/4" Diameter, 12" Length, Chrome Plated Nipple.....	203.23	42.24
23 21 13 23-2647 EA 2" Diameter, 12" Length, Chrome Plated Nipple.....	297.56	57.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2648 18" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2649 EA 3/8" Diameter, 18" Length, Chrome Plated Nipple.....	72.95	21.64
23 21 13 23-2650 24" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2651 EA 3/8" Diameter, 24" Length, Chrome Plated Nipple.....	87.32	22.51
23 21 13 23-2652 30" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2653 EA 3/8" Diameter, 30" Length, Chrome Plated Nipple.....	96.57	23.55
23 21 13 23-2654 36" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2655 EA 3/8" Diameter, 36" Length, Chrome Plated Nipple.....	105.83	24.57
23 21 13 23-2656 Chrome Plated Fittings <small>(23 21 13 23-2629)</small>		
23 21 13 23-2657 Chrome Plated 90 Degree Elbows <small>(23 21 13 23-2656)</small>		
23 21 13 23-2658 EA 1/4" 90 Degree Elbow, Chrome Plated.....	31.41	13.68
23 21 13 23-2659 EA 3/8" 90 Degree Elbow, Chrome Plated.....	32.20	14.72
23 21 13 23-2660 EA 1/2" 90 Degree Elbow, Chrome Plated.....	36.05	15.74
23 21 13 23-2661 EA 3/4" 90 Degree Elbow, Chrome Plated.....	46.13	20.60
23 21 13 23-2662 EA 1" 90 Degree Elbow, Chrome Plated.....	62.32	26.49
23 21 13 23-2663 EA 1-1/4" 90 Degree Elbow, Chrome Plated.....	94.95	36.35
23 21 13 23-2664 EA 1-1/2" 90 Degree Elbow, Chrome Plated.....	113.77	42.24
23 21 13 23-2665 EA 2" 90 Degree Elbow, Chrome Plated.....	154.56	52.09
23 21 13 23-2666 Chrome Plated Street 90 Degree Elbows <small>(23 21 13 23-2656)</small>		
23 21 13 23-2667 EA 1/4" Street 90 Degree Elbow, Chrome Plated.....	35.94	13.68
23 21 13 23-2668 EA 3/8" Street 90 Degree Elbow, Chrome Plated.....	37.17	14.72
23 21 13 23-2669 EA 1/2" Street 90 Degree Elbow, Chrome Plated.....	39.51	15.74
23 21 13 23-2670 EA 3/4" Street 90 Degree Elbow, Chrome Plated.....	51.21	20.60
23 21 13 23-2671 EA 1" Street 90 Degree Elbow, Chrome Plated.....	71.72	26.49
23 21 13 23-2672 EA 1-1/4" Street 90 Degree Elbow, Chrome Plated.....	104.58	36.35
23 21 13 23-2673 EA 1-1/2" Street 90 Degree Elbow, Chrome Plated.....	127.27	42.24
23 21 13 23-2674 EA 2" Street 90 Degree Elbow, Chrome Plated.....	186.34	52.09
23 21 13 23-2675 Chrome Plated 45 Degree Elbows <small>(23 21 13 23-2656)</small>		
23 21 13 23-2676 EA 1/4" 45 Degree Elbow, Chrome Plated.....	32.41	13.68
23 21 13 23-2677 EA 3/8" 45 Degree Elbow, Chrome Plated.....	33.63	14.72
23 21 13 23-2678 EA 1/2" 45 Degree Elbow, Chrome Plated.....	37.08	15.74
23 21 13 23-2679 EA 3/4" 45 Degree Elbow, Chrome Plated.....	50.01	20.60
23 21 13 23-2680 EA 1" 45 Degree Elbow, Chrome Plated.....	66.68	26.49
23 21 13 23-2681 EA 1-1/4" 45 Degree Elbow, Chrome Plated.....	100.17	36.35
23 21 13 23-2682 EA 1-1/2" 45 Degree Elbow, Chrome Plated.....	120.76	42.24
23 21 13 23-2683 EA 2" 45 Degree Elbow, Chrome Plated.....	173.78	52.09
23 21 13 23-2684 Chrome Plated Street 45 Degree Elbows <small>(23 21 13 23-2656)</small>		
23 21 13 23-2685 EA 1/2" Street 45 Degree Elbow, Chrome Plated.....	43.30	15.74
23 21 13 23-2686 Chrome Plated Couplings <small>(23 21 13 23-2656)</small>		
23 21 13 23-2687 EA 1/4" Coupling, Chrome Plated.....	30.80	13.68
23 21 13 23-2688 EA 3/8" Coupling, Chrome Plated.....	32.28	14.72
23 21 13 23-2689 EA 1/2" Coupling, Chrome Plated.....	36.31	15.74
23 21 13 23-2690 EA 3/4" Coupling, Chrome Plated.....	46.22	20.60
23 21 13 23-2691 EA 1" Coupling, Chrome Plated.....	60.17	26.49
23 21 13 23-2692 EA 1-1/4" Coupling, Chrome Plated.....	87.11	36.35
23 21 13 23-2693 EA 1-1/2" Coupling, Chrome Plated.....	107.21	42.24
23 21 13 23-2694 EA 2" Coupling, Chrome Plated.....	146.55	52.09
23 21 13 23-2695 Chrome Plated Unions <small>(23 21 13 23-2656)</small>		
23 21 13 23-2696 EA 1/4" Union, Chrome Plated.....	48.17	15.74
23 21 13 23-2697 EA 3/8" Union, Chrome Plated.....	49.65	16.63
23 21 13 23-2698 EA 1/2" Union, Chrome Plated.....	59.72	18.69
23 21 13 23-2699 EA 3/4" Union, Chrome Plated.....	74.34	24.57
23 21 13 23-2700 EA 1" Union, Chrome Plated.....	94.09	31.35
23 21 13 23-2701 EA 1-1/4" Union, Chrome Plated.....	150.81	42.24
23 21 13 23-2702 EA 1-1/2" Union, Chrome Plated.....	187.27	50.04
23 21 13 23-2703 EA 2" Union, Chrome Plated.....	243.48	60.93
23 21 13 23-2704 Chrome Plated Caps <small>(23 21 13 23-2656)</small>		
23 21 13 23-2705 EA 1/4" Cap, Chrome Plated.....	20.25	6.92

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2706	EA	3/8" Cap, Chrome Plated	20.97	7.36
23 21	13 23-2707	EA	1/2" Cap, Chrome Plated	23.84	7.80
23 21	13 23-2708	EA	3/4" Cap, Chrome Plated	29.84	10.31
23 21	13 23-2709	EA	1" Cap, Chrome Plated	35.67	13.24
23 21	13 23-2710	EA	1-1/4" Cap, Chrome Plated	52.36	18.10
23 21	13 23-2711	EA	1-1/2" Cap, Chrome Plated	68.42	21.04
23 21	13 23-2712	EA	2" Cap, Chrome Plated	99.37	27.52
23 21	13 23-2713		Chrome Plated Plugs (23 21 13 23-2656)		
23 21	13 23-2714	EA	1/4" Plug, Chrome Plated	16.79	6.92
23 21	13 23-2715	EA	3/8" Plug, Chrome Plated	17.51	7.36
23 21	13 23-2716	EA	1/2" Plug, Chrome Plated	20.20	7.80
23 21	13 23-2717	EA	3/4" Plug, Chrome Plated	27.25	10.31
23 21	13 23-2718	EA	1" Plug, Chrome Plated	33.69	13.24
23 21	13 23-2719	EA	1-1/4" Plug, Chrome Plated	45.56	18.10
23 21	13 23-2720	EA	1-1/2" Plug, Chrome Plated	55.95	21.04
23 21	13 23-2721	EA	2" Plug, Chrome Plated	77.67	27.52
23 21	13 23-2722		Chrome Plated Tees (23 21 13 23-2656)		
23 21	13 23-2723	EA	1/4" Chrome Plated Tee	43.95	20.60
23 21	13 23-2724	EA	3/8" Chrome Plated Tee	46.89	22.51
23 21	13 23-2725	EA	1/2" Chrome Plated Tee	52.13	24.57
23 21	13 23-2726	EA	3/4" Chrome Plated Tee	64.91	30.46
23 21	13 23-2727	EA	1" Chrome Plated Tee	91.49	39.29
23 21	13 23-2728	EA	1-1/4" Chrome Plated Tee	126.11	54.01
23 21	13 23-2729	EA	1-1/2" Chrome Plated Tee	160.20	62.84
23 21	13 23-2730	EA	2" Chrome Plated Tee	218.06	77.56
23 21	13 23-2731		Chrome Plated Reducing 90 Degree Elbows (23 21 13 23-2656)		
23 21	13 23-2732	EA	1/2" x 3/8" Reducing 90 Degree Elbow, Chrome Plated	49.83	24.57
23 21	13 23-2733	EA	3/4" x 1/2" Reducing 90 Degree Elbow, Chrome Plated	58.66	30.46
23 21	13 23-2734		Chrome Plated Bell Reducers (23 21 13 23-2656)		
23 21	13 23-2735	EA	1/2" x 3/8" Bell Reducer, Chrome Plated	54.00	24.57
23 21	13 23-2736	EA	3/4" x 1/2" Bell Reducer, Chrome Plated	65.86	30.46
23 21	13 23-2737	EA	1" x 1/2" Bell Reducer, Chrome Plated	83.79	39.29
23 21	13 23-2738		Chrome Plated Reducing Tees (23 21 13 23-2656)		
23 21	13 23-2739	EA	3/4" x 1/2" Reducing Tee, Chrome Plated	71.16	30.46
23 21	13 23-2740		Chrome Plated Bushings (23 21 13 23-2656)		
23 21	13 23-2741	EA	3/8" x 1/4" Bushing, Chrome Plated	16.69	6.92
23 21	13 23-2742	EA	1/2" x 1/4" Bushing, Chrome Plated	17.95	7.36
23 21	13 23-2743	EA	1/2" x 3/8" Bushing, Chrome Plated	18.69	7.80
23 21	13 23-2744	EA	3/4" x 1/2" Bushing, Chrome Plated	23.82	10.31
23 21	13 23-2745	EA	1" x 3/4" Bushing, Chrome Plated	34.36	13.24
23 21	13 23-2746	EA	1-1/4" x 1" Bushing, Chrome Plated	50.04	18.10
23 21	13 23-2747		Aluminum Tubing Assemblies (23 21 13 23)		
			Note: ASTM B210 (Tubing), ASTM B26 (Fittings). Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21	13 23-2748	LF	1/8" Inside Diameter Aluminum Pipe/Tubing Assembly	12.84	5.15
			Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21	13 23-2749	LF	3/16" Inside Diameter Aluminum Pipe/Tubing Assembly	14.63	5.88
			Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21	13 23-2750	LF	1/4" Inside Diameter Aluminum Pipe/Tubing Assembly	16.29	6.63
			Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21	13 23-2751	LF	5/16" Inside Diameter Aluminum Pipe/Tubing Assembly	17.84	7.36
			Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21	13 23-2752	LF	3/8" Inside Diameter Aluminum Pipe/Tubing Assembly	19.76	8.09
			Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21	13 23-2753	LF	1/2" Inside Diameter Aluminum Pipe/Tubing Assembly	22.64	8.83
			Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21	13 23-2754	LF	5/8" Inside Diameter Aluminum Pipe/Tubing Assembly	26.47	10.16
			Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2755 LF 3/4" Inside Diameter Aluminum Pipe/Tubing Assembly..... Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	32.46	11.52
23 21 13 23-2756 LF 7/8" Inside Diameter Aluminum Pipe/Tubing Assembly..... Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	37.56	12.87
23 21 13 23-2757 LF 1" Inside Diameter Aluminum Pipe/Tubing Assembly.....	44.81	13.55
23 21 16 Hydronic Piping Specialties (23 21)		
23 21 16 00-0001 Vent Valves (23 21 16)		
23 21 16 00-0002 EA 1/8", 1.5 PSIG Operating Pressure, Non Vacuum Adjustable Angle Radiator Steam Vent Valve (Hoffman 1A)	89.23	22.09
23 21 16 00-0003 EA 1/2" x 3/4", 35 PSIG Operating Pressure, Straight Steam Unit Heater Air Vent Valve (Hoffman 74).....	203.25	23.75
23 21 16 00-0004 EA 1/2" x 3/4", 3 PSIG Operating Pressure, Non Vacuum Main Steam Air Vent Valve (Hoffman 75).....	194.21	23.75
23 21 16 00-0005 EA 1/2" x 3/4", 10 PSIG Operating Pressure, Non Vacuum Straight Non-Vacuum Main Steam Air Vent Valve (Hoffman 75H).....	200.54	23.75
23 21 16 00-0006 EA 3/4", 150 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 78)	255.88	23.75
23 21 16 00-0007 EA 1/2" x 3/4", 75 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 79)	191.73	23.75
23 21 16 00-0008 Threaded Inlet, Drip-Pan Elbow (23 21 16)		
23 21 16 00-0009 Cast Iron, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)		
23 21 16 00-0010 EA 2-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow	332.06	37.01
<i>For Flanged Inlet, Add</i>	126.11	
23 21 16 00-0011 EA 3" Cast Iron, Threaded Inlet, Drip-Pan Elbow	375.96	43.87
<i>For Flanged Inlet, Add</i>	135.37	
23 21 16 00-0012 EA 3-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow	473.18	50.72
<i>For Flanged Inlet, Add</i>	182.63	
23 21 16 00-0013 EA 4" Cast Iron, Threaded Inlet, Drip-Pan Elbow	704.88	57.58
<i>For Flanged Inlet, Add</i>	321.33	
23 21 16 00-0014 EA 5" Cast Iron, Threaded Inlet, Drip-Pan Elbow	796.52	68.54
<i>For Flanged Inlet, Add</i>	355.21	
23 21 16 00-0015 EA 6" Cast Iron, Threaded Inlet, Drip-Pan Elbow	1,106.08	86.36
<i>For Flanged Inlet, Add</i>	519.10	
23 21 16 00-0016 EA 8" Cast Iron, Threaded Inlet, Drip-Pan Elbow	2,488.26	113.78
<i>For Flanged Inlet, Add</i>	1,381.31	
23 21 16 00-0017 Cast Steel, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)		
23 21 16 00-0018 EA 2-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow	675.83	37.01
<i>For Flanged Inlet, Add</i>	359.87	
23 21 16 00-0019 EA 3" Cast Steel, Threaded Inlet, Drip-Pan Elbow	818.15	43.87
<i>For Flanged Inlet, Add</i>	436.06	
23 21 16 00-0020 EA 3-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,160.30	50.72
<i>For Flanged Inlet, Add</i>	649.88	
23 21 16 00-0021 EA 4" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,188.04	57.58
<i>For Flanged Inlet, Add</i>	649.88	
23 21 16 00-0022 EA 5" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,700.07	68.54
<i>For Flanged Inlet, Add</i>	969.63	
23 21 16 00-0023 EA 6" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,768.62	86.36
<i>For Flanged Inlet, Add</i>	969.63	
23 21 16 00-0024 EA 8" Cast Steel, Threaded Inlet, Drip-Pan Elbow	2,905.58	113.78
<i>For Flanged Inlet, Add</i>	1,665.09	
23 21 16 00-0025 Y-Type Strainers (23 21 16)		
23 21 16 00-0026 Screwed Ends, 250 LB, Iron Body, Y-Type Strainers (23 21 16 00-0025)		
23 21 16 00-0027 EA 1/4" Or 3/8" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	89.04	16.48
<i>For Galvanized Body, Add</i>	20.97	
<i>For Work In Restricted Working Space, Add</i>	14.13	
23 21 16 00-0028 EA 1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	89.77	16.79
<i>For Galvanized Body, Add</i>	20.97	
<i>For Work In Restricted Working Space, Add</i>	14.35	
23 21 16 00-0029 EA 3/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	114.81	22.67
<i>For Galvanized Body, Add</i>	25.02	
<i>For Work In Restricted Working Space, Add</i>	19.43	
23 21 16 00-0030 EA 1" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	144.90	27.08
<i>For Galvanized Body, Add</i>	33.81	
<i>For Work In Restricted Working Space, Add</i>	23.18	
23 21 16 00-0031 EA 1-1/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	188.33	33.49
<i>For Galvanized Body, Add</i>	46.32	
<i>For Work In Restricted Working Space, Add</i>	28.71	
23 21 16 00-0032 EA 1-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	214.63	36.07
<i>For Galvanized Body, Add</i>	55.79	
<i>For Work In Restricted Working Space, Add</i>	30.92	
23 21 16 00-0033 EA 2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	289.52	41.21
<i>For Galvanized Body, Add</i>	85.88	
<i>For Work In Restricted Working Space, Add</i>	35.33	
23 21 16 00-0034 EA 2-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	533.33	51.52
<i>For Galvanized Body, Add</i>	193.06	
<i>For Work In Restricted Working Space, Add</i>	44.16	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0035 EA 3" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	688.47	64.48
For Galvanized Body, Add	252.23	
For Work In Restricted Working Space, Add	55.20	
23 21 16 00-0036 Flanged, 125 LB, Iron Body , Y-Type Strainers (23 21 16 00-0025)		
23 21 16 00-0037 EA 1-1/2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	338.62	154.57
For Galvanized Body, Add	72.47	
For Work In Restricted Working Space, Add	58.11	
23 21 16 00-0038 EA 2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	402.19	196.23
For Galvanized Body, Add	78.42	
For Work In Restricted Working Space, Add	73.61	
23 21 16 00-0039 EA 3" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	687.09	250.26
For Galvanized Body, Add	186.95	
For Work In Restricted Working Space, Add	93.96	
23 21 16 00-0040 EA 4" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	950.03	419.54
For Galvanized Body, Add	212.15	
For Work In Restricted Working Space, Add	157.72	
23 21 16 00-0041 EA 5" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	1,002.07	422.56
For Galvanized Body, Add	237.34	
For Work In Restricted Working Space, Add	158.22	
23 21 16 00-0042 EA 6" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	1,178.52	469.52
For Galvanized Body, Add	294.77	
For Work In Restricted Working Space, Add	176.70	
23 21 16 00-0043 EA 8" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	1,906.35	599.93
For Galvanized Body, Add	580.55	
For Work In Restricted Working Space, Add	223.58	
23 21 16 00-0044 EA 10" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	3,500.79	730.35
For Galvanized Body, Add	1,293.93	
For Work In Restricted Working Space, Add	273.88	
23 21 16 00-0045 EA 12" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	3,995.00	652.10
For Galvanized Body, Add	1,345.40	
For Work In Restricted Working Space, Add	391.26	
23 21 16 00-0046 Screwed Ends, 150 LB, Bronze Body, Y-Type Strainers (23 21 16 00-0025)		
Note: With screwed cap (4" size has bolted cap).		
23 21 16 00-0047 EA 1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	77.38	16.79
For 300 LB Rating, Add	50.22	
For Work In Restricted Working Space, Add	14.35	
23 21 16 00-0048 EA 3/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	103.17	22.67
For 300 LB Rating, Add	65.28	
For Work In Restricted Working Space, Add	19.43	
23 21 16 00-0049 EA 1" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	125.65	27.08
For 300 LB Rating, Add	82.23	
For Work In Restricted Working Space, Add	23.18	
23 21 16 00-0050 EA 1-1/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	156.25	33.49
For 300 LB Rating, Add	102.95	
For Work In Restricted Working Space, Add	28.71	
23 21 16 00-0051 EA 1-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	181.70	36.07
For 300 LB Rating, Add	133.71	
For Work In Restricted Working Space, Add	30.92	
23 21 16 00-0052 EA 2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	245.52	41.21
For 300 LB Rating, Add	217.19	
For Work In Restricted Working Space, Add	35.33	
23 21 16 00-0053 EA 2-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	358.06	51.52
For 300 LB Rating, Add	358.45	
For Work In Restricted Working Space, Add	44.16	
23 21 16 00-0054 EA 3" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	621.18	64.48
For 300 LB Rating, Add	743.19	
For Work In Restricted Working Space, Add	55.20	
23 21 16 00-0055 EA 4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	1,050.48	77.28
For 300 LB Rating, Add	1,410.44	
For Work In Restricted Working Space, Add	66.24	
23 21 16 00-0056 Flanged, 150 LB, Bronze Body, Y-Type Strainers (23 21 16 00-0025)		
Note: With bolted cap.		
23 21 16 00-0057 EA 2" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	612.32	196.23
For 300 LB Rating, Add	220.18	
For Work In Restricted Working Space, Add	73.61	
23 21 16 00-0058 EA 2-1/2" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	641.53	213.45
For 300 LB Rating, Add	224.33	
For Work In Restricted Working Space, Add	80.29	
23 21 16 00-0059 EA 3" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	741.34	250.26
For 300 LB Rating, Add	256.88	
For Work In Restricted Working Space, Add	93.96	
23 21 16 00-0060 EA 4" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	1,566.04	419.54
For 300 LB Rating, Add	624.18	
For Work In Restricted Working Space, Add	157.72	
23 21 16 00-0061 EA 6" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	2,165.91	469.52
For 300 LB Rating, Add	946.15	
For Work In Restricted Working Space, Add	176.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0062 EA 8" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,436.39 1,614.68 223.58	599.93
23 21 16 00-0063 EA 10" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,571.77 5,795.30 273.88	730.35
23 21 16 00-0064 Cast Iron Body, Suction Diffusers <small>(23 21 16)</small> Note: 175 PSI, steel inlet vanes, steel orifice cylinder and 16 mesh bronze startup strainer.		
23 21 16 00-0065 EA 2" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	558.56 28.40	58.00
23 21 16 00-0066 EA 2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	587.60 31.55	64.33
23 21 16 00-0067 EA 2-1/2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	597.54 33.14	67.56
23 21 16 00-0068 EA 2-1/2" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,139.76 80.29	213.45
23 21 16 00-0069 EA 3" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	620.00 38.48	78.61
23 21 16 00-0070 EA 3" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	698.86 38.48	78.61
23 21 16 00-0071 EA 3" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,195.02 87.13	232.34
23 21 16 00-0072 EA 3" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,222.44 93.96	250.26
23 21 16 00-0073 EA 4" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,491.07 125.84	335.58
23 21 16 00-0074 EA 4" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,759.70 157.72	419.54
23 21 16 00-0075 EA 6" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	2,002.58 158.22	421.91
23 21 16 00-0076 EA 6" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	2,412.10 176.70	469.52
23 21 16 00-0077 EA 8" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	2,740.01 223.58	599.93
23 21 16 00-0078 EA 8" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	4,173.45 223.58	599.93
23 21 16 00-0079 EA 10" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	4,777.18 273.88	730.35
23 21 16 00-0080 EA 10" x 10" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	5,561.17 273.88	730.35
23 21 16 00-0081 Duplex Strainers <small>(23 21 16)</small>		
23 21 16 00-0082 Iron Body, Duplex Strainers <small>(23 21 16 00-0081)</small>		
23 21 16 00-0083 Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers <small>(23 21 16 00-0082)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0084 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	826.65 22.01	36.66
23 21 16 00-0085 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	923.57 25.19	41.96
23 21 16 00-0086 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,248.12 29.57	49.31
23 21 16 00-0087 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,566.96 32.24	53.73
23 21 16 00-0088 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,097.06 39.43	65.50
23 21 16 00-0089 EA 2-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,639.50 50.33	83.91
23 21 16 00-0090 Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers <small>(23 21 16 00-0082)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0091 EA 2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,874.02 73.61	196.23
23 21 16 00-0092 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,974.78 80.29	213.45
23 21 16 00-0093 EA 3" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,805.01 93.96	250.26
23 21 16 00-0094 EA 4" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	5,958.52 139.73	371.69
23 21 16 00-0095 EA 6" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	11,574.47 176.70	469.52
23 21 16 00-0096 EA 8" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	21,931.55 223.58	599.93
23 21 16 00-0097 EA 10" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	30,259.87 273.88	730.35
23 21 16 00-0098 EA 12" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	34,484.67 552.63	920.77
23 21 16 00-0099 EA 14" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	40,851.95 391.26	1,043.36

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0100 EA 16" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	51,026.23 430.38	1,147.69
23 21 16 00-0101 Bronze Body, Duplex Strainers (23 21 16 00-0081)		
23 21 16 00-0102 Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainers (23 21 16 00-0101) Note: With brass or stainless steel basket.		
23 21 16 00-0103 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,525.01 22.01	36.80
23 21 16 00-0104 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,692.56 25.19	41.96
23 21 16 00-0105 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,472.22 29.57	49.31
23 21 16 00-0106 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,246.17 32.24	53.73
23 21 16 00-0107 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	4,192.15 39.43	65.50
23 21 16 00-0108 EA 2-1/2" Screwed, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,150.47 50.33	83.91
23 21 16 00-0109 Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainers (23 21 16 00-0101) Note: With brass or stainless steel basket.		
23 21 16 00-0110 EA 2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,895.03 73.61	196.23
23 21 16 00-0111 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	6,074.25 80.29	213.45
23 21 16 00-0112 EA 3" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	8,316.91 93.96	250.26
23 21 16 00-0113 EA 4" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	13,099.09 139.73	371.69
23 21 16 00-0114 EA 6" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	28,366.57 176.70	469.52
23 21 16 00-0115 Cast Steel Body, Duplex Strainers (23 21 16 00-0081)		
23 21 16 00-0116 Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00-0115) Note: With brass or stainless steel basket.		
23 21 16 00-0117 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,368.79 25.20	41.96
23 21 16 00-0118 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,916.48 29.57	49.31
23 21 16 00-0119 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,458.51 32.24	53.73
23 21 16 00-0120 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,843.43 39.43	65.50
23 21 16 00-0121 Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00- 0115) Note: With brass or stainless steel basket.		
23 21 16 00-0122 EA 2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,995.42 73.61	196.23
23 21 16 00-0123 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	6,588.91 80.29	213.45
23 21 16 00-0124 EA 3" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	8,652.71 93.96	250.26
23 21 16 00-0125 EA 4" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	12,689.44 139.73	371.69
23 21 16 00-0126 EA 6" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	21,609.12 176.70	469.52
23 21 16 00-0127 EA 8" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	42,023.91 223.58	599.93
23 21 16 00-0128 Stainless Steel Body, Duplex Strainers (23 21 16 00-0081)		
23 21 16 00-0129 Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers (23 21 16 00-0128) Note: With stainless steel basket.		
23 21 16 00-0130 EA 1" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	4,674.20 25.20	41.96
23 21 16 00-0131 EA 1-1/4" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,904.32 29.57	49.31
23 21 16 00-0132 EA 1-1/2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	7,120.30 32.24	53.73
23 21 16 00-0133 EA 2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	11,394.45 39.43	65.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0134 Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers <small>(23 21 16 00-0128)</small>		
<i>Note: With stainless steel basket.</i>		
23 21 16 00-0135 EA 2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	11,975.88	196.23
<i>For Work In Restricted Working Space, Add</i>	73.61	
23 21 16 00-0136 EA 2-1/2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	12,593.20	213.45
<i>For Work In Restricted Working Space, Add</i>	80.29	
23 21 16 00-0137 EA 3" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	19,694.08	250.26
<i>For Work In Restricted Working Space, Add</i>	93.96	
23 21 16 00-0138 EA 4" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	24,096.86	371.69
<i>For Work In Restricted Working Space, Add</i>	139.73	
23 21 16 00-0139 EA 6" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	42,240.89	469.52
<i>For Work In Restricted Working Space, Add</i>	176.70	
23 21 16 00-0140 EA 8" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	77,928.78	599.93
<i>For Work In Restricted Working Space, Add</i>	223.58	
23 21 16 00-0141 Pressure Regulating Valve <small>(23 21 16)</small>		
23 21 16 00-0142 Screwed Ends, Iron Body, Water Pressure Reducing Valves <small>(23 21 16 00-0141)</small>		
<i>Note: For building services, 25 - 75 PSI, up to 300 Lbs. rating</i>		
23 21 16 00-0143 EA 1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	237.23	18.40
<i>For Work In Restricted Working Space, Add</i>	22.07	
23 21 16 00-0144 EA 3/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	290.34	20.60
<i>For Work In Restricted Working Space, Add</i>	24.53	
23 21 16 00-0145 EA 1" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	377.36	22.08
<i>For Work In Restricted Working Space, Add</i>	25.97	
23 21 16 00-0146 EA 1-1/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	635.63	24.72
<i>For Work In Restricted Working Space, Add</i>	29.43	
23 21 16 00-0147 EA 1-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	859.21	29.43
<i>For Work In Restricted Working Space, Add</i>	35.32	
23 21 16 00-0148 EA 2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	1,233.97	45.12
<i>For Work In Restricted Working Space, Add</i>	54.20	
23 21 16 00-0149 EA 2-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	1,343.85	50.81
<i>For Work In Restricted Working Space, Add</i>	60.97	
23 21 16 00-0150 EA 3" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	1,477.18	147.01
<i>For Work In Restricted Working Space, Add</i>	67.74	
23 21 16 00-0151 Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0141)</small>		
<i>Note: Single seated, spring loaded, direct acting diaphragm valve.</i>		
23 21 16 00-0152 Screwed Ends, Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0151)</small>		
23 21 16 00-0153 EA 1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	393.51	24.73
<i>For Work In Restricted Working Space, Add</i>	29.64	
23 21 16 00-0154 EA 3/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	496.74	35.04
<i>For Work In Restricted Working Space, Add</i>	42.06	
23 21 16 00-0155 EA 1" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	636.33	42.69
<i>For Work In Restricted Working Space, Add</i>	51.35	
23 21 16 00-0156 EA 1-1/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	844.20	51.82
<i>For Work In Restricted Working Space, Add</i>	59.68	
23 21 16 00-0157 EA 1-1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	1,123.52	58.89
<i>For Work In Restricted Working Space, Add</i>	67.94	
23 21 16 00-0158 EA 2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	1,315.75	82.24
<i>For Work In Restricted Working Space, Add</i>	82.25	
23 21 16 00-0159 Flanged, Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0151)</small>		
<i>Note: Single seated, spring loaded, direct acting diaphragm valve.</i>		
23 21 16 00-0160 EA 2-1/2" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	2,941.76	198.76
<i>For Work In Restricted Working Space, Add</i>	74.77	
23 21 16 00-0161 EA 3" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer	3,653.54	233.03
<i>For Work In Restricted Working Space, Add</i>	87.50	
23 21 16 00-0162 EA 4" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer	4,726.74	390.67
<i>For Work In Restricted Working Space, Add</i>	146.87	
23 21 16 00-0163 EA 6" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer	11,584.11	437.38
<i>For Work In Restricted Working Space, Add</i>	164.60	
23 21 16 00-0164 Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0141)</small>		
23 21 16 00-0165 Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0164)</small>		
23 21 16 00-0166 EA 1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve	2,110.34	17.96
<i>For Work In Restricted Working Space, Add</i>	26.94	
23 21 16 00-0167 EA 3/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve	2,154.15	17.96
<i>For Work In Restricted Working Space, Add</i>	26.94	
23 21 16 00-0168 EA 1" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve	2,299.43	22.67
<i>For Work In Restricted Working Space, Add</i>	34.01	
23 21 16 00-0169 EA 1-1/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve	2,705.24	28.85
<i>For Work In Restricted Working Space, Add</i>	43.28	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0170 EA 1-1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	3,097.36 49.91	33.27
23 21 16 00-0171 EA 2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	3,837.65 58.74	39.15
23 21 16 00-0172 Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves (23 21 16 00-0164)		
23 21 16 00-0173 EA 2-1/2" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	4,743.12 74.77	198.76
23 21 16 00-0174 EA 3" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	5,846.94 87.50	233.03
23 21 16 00-0175 EA 4" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	8,868.75 146.87	390.67
23 21 16 00-0176 EA 6" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	19,347.06 164.60	437.38
23 21 16 00-0177 Screwed Ends, Cast Iron Body, Air Pressure Reducing Valves (23 21 16 00-0141)		
23 21 16 00-0178 EA 1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve 23 21 16 00-0179 EA 3/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve 23 21 16 00-0180 EA 1" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve 23 21 16 00-0181 EA 1-1/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve 23 21 16 00-0182 EA 1-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve 23 21 16 00-0183 EA 2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve 23 21 16 00-0184 EA 2-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve 23 21 16 00-0185 EA 3" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	264.14 324.63 425.18 724.01 981.10 1,407.17 1,524.62 1,682.94	19.13 21.19 22.51 25.61 30.60 46.88 51.07 58.80
23 21 16 00-0186 Screwed Ends, Bronze Body, Water Pressure Reducing Valves (23 21 16 00-0141) Note: For building services, bronze construction, pressure adjustment, union and strainer, factory set at 45 PSI (Watts 25AUB).		
23 21 16 00-0187 EA 1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve 23 21 16 00-0188 EA 3/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve 23 21 16 00-0189 EA 1" Screwed Ends, Bronze Body, Water Pressure Reducing Valve 23 21 16 00-0190 EA 1-1/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve 23 21 16 00-0191 EA 1-1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve 23 21 16 00-0192 EA 2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	204.30 224.74 275.56 626.67 682.02 1,070.64	18.40 20.60 22.81 24.72 29.43 45.12
23 21 16 00-0193 Dual Unit Reducing And Relief Valve (23 21 16)		
23 21 16 00-0194 EA 1/2" Dual Unit Reducing And Relief Valve	232.29	44.90
23 21 16 00-0195 Safety Relief Valve (23 21 16) Note: Used in water heater and hot water storage tank applications.		
23 21 16 00-0196 Threaded Inlet, Bronze Body Safety Valves (23 21 16 00-0195) Note: Variable set points to 150 psig pressure, 210 Degree F temperature range.		
23 21 16 00-0197 EA 1/2" x 1/2" Threaded Inlet, Bronze Body Safety Valve 23 21 16 00-0198 EA 3/4" x 3/4" Threaded Inlet, Bronze Body Safety Valve 23 21 16 00-0199 EA 1" x 1" Threaded Inlet, Bronze Body Safety Valve 23 21 16 00-0200 EA 1-1/4" x 1-1/4" Threaded Inlet, Bronze Body Safety Valve 23 21 16 00-0201 EA 1-1/2" x 1-1/2" Threaded Inlet, Bronze Body Safety Valve 23 21 16 00-0202 EA 2" x 2" Threaded Inlet, Bronze Body Safety Valve 23 21 16 00-0203 EA 2-1/2" x 2-1/2" Threaded Inlet, Bronze Body Safety Valve	96.20 128.58 181.63 229.71 315.39 418.00 478.27	18.40 20.24 24.65 26.12 34.95 41.20 51.51
23 21 16 00-0204 Threaded, Bronze Body, Temperature And Pressure Relief Valves (23 21 16)		
23 21 16 00-0205 EA 1/2" x 1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve <i>For Cast Iron Body, Add</i>	103.20 52.35	37.52
23 21 16 00-0206 EA 3/4" x 3/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve <i>For Cast Iron Body, Add</i>	131.92 72.93	45.03
23 21 16 00-0207 EA 1" x 1" Threaded, Bronze Body, Temperature And Pressure Relief Valve <i>For Cast Iron Body, Add</i>	191.03 116.15	60.04
23 21 16 00-0208 EA 1-1/4" x 1-1/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve <i>For Cast Iron Body, Add</i>	302.60 246.85	64.31
23 21 16 00-0209 EA 1-1/2" x 1-1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve <i>For Cast Iron Body, Add</i>	495.46 472.21	72.11
23 21 16 00-0210 EA 2" x 2" Threaded, Bronze Body, Temperature And Pressure Relief Valve <i>For Cast Iron Body, Add</i>	580.72 514.20	103.65
23 21 16 00-0211 Horizontal Steel Expansion Tanks (23 21 16) Note: ASME Code Stamp. 150 PSI with glass gauge and cocks.		
23 21 16 00-0212 EA 10 Gallon Horizontal Steel Expansion Tank 23 21 16 00-0213 EA 15 Gallon Horizontal Steel Expansion Tank 23 21 16 00-0214 EA 30 Gallon Horizontal Steel Expansion Tank 23 21 16 00-0215 EA 40 Gallon Horizontal Steel Expansion Tank 23 21 16 00-0216 EA 60 Gallon Horizontal Steel Expansion Tank	826.98 1,166.86 1,526.76 1,757.87 2,017.82	147.21 184.01 220.81 257.61 260.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0217 Horizontal Diaphragm Type (Bladder) Steel Expansion Tanks ^(23 21 16)		
Note: ASME. Precharged with working pressure 125 psi. Armstrong AX Series.		
23 21 16 00-0218 EA 7.8 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	1,637.39	110.41
23 21 16 00-0219 EA 10.9 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	1,715.35	128.80
23 21 16 00-0220 EA 21.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	2,539.15	147.21
23 21 16 00-0221 EA 33.6 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	2,648.60	165.60
23 21 16 00-0222 EA 44.4 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	3,574.09	184.01
23 21 16 00-0223 EA 55.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	3,773.13	202.41
23 21 16 00-0224 EA 68.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	4,478.26	220.81
23 21 16 00-0225 EA 77.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	4,793.54	239.21
23 21 16 00-0226 EA 90.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	5,280.74	257.61
23 21 16 00-0227 EA 110.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	5,441.51	294.42
23 21 16 00-0228 EA 132.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	6,810.62	331.22
23 21 16 00-0229 EA 158.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	7,804.39	368.02
23 21 16 00-0230 EA 211.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	9,065.49	441.62
23 21 16 00-0231 Vertical Diaphragm Type (Bladder) Steel Expansion Tanks (Armstrong AX) ^(23 21 16)		
Note: ASME. Precharged with working pressure 125 psi		
23 21 16 00-0232 EA 8.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	1,860.17	110.41
23 21 16 00-0233 EA 11.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	1,926.02	128.80
23 21 16 00-0234 EA 22.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	2,742.56	147.21
23 21 16 00-0235 EA 34.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	2,931.91	165.60
23 21 16 00-0236 EA 44.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	3,716.95	184.01
23 21 16 00-0237 EA 56.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	3,913.57	202.41
23 21 16 00-0238 EA 67.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	4,761.58	220.81
23 21 16 00-0239 EA 77.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	5,147.08	239.21
23 21 16 00-0240 EA 91.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	5,689.98	257.61
23 21 16 00-0241 EA 111.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	5,843.48	294.42
23 21 16 00-0242 EA 132.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	7,176.27	331.22
23 21 16 00-0243 EA 158.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	8,320.17	368.02
23 21 16 00-0244 EA 211.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank	9,590.95	441.62
23 21 16 00-0245 Diaphragm Type (Residential Style) Steel Expansion Tanks ^(23 21 16)		
23 21 16 00-0246 EA 2.1 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-5-M1)	106.14	13.55
23 21 16 00-0247 EA 4.5 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-12-M1)	149.71	13.55
23 21 16 00-0248 Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tanks ^(23 21 16)		
23 21 16 00-0249 EA 15 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank	1,363.34	441.77
23 21 16 00-0250 EA 20 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank	1,412.16	441.77
23 21 16 00-0251 EA 30 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank	1,460.96	441.77
23 21 16 00-0252 EA 40 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank	1,587.85	441.77
23 21 16 00-0253 EA 47 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank	1,925.67	588.68
23 21 16 00-0254 EA 60 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank	2,218.04	588.98
23 21 16 00-0255 EA 80 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank	2,276.02	588.98
23 21 16 00-0256 EA 87 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank	2,334.00	588.98
23 21 16 00-0257 EA 120 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank	2,963.57	736.03
23 21 16 00-0258 EA 187 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank	7,879.05	736.03
23 21 16 00-0259 EA 264 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank	9,996.46	882.95
23 21 16 00-0260 ASME Construction Compression Tanks ^(23 21 16)		
Note: With gauge glass taps, 125 PSI, 240 degree F tanks below are sized by capacity and diameter and height. See CSI section 22 12 00 00-0000 for other tanks.		
23 21 16 00-0261 EA 15 Gallon, 13" x 34-1/2" ASME Construction Compression Tank	1,208.26	259.09
For Galvanized Steel Tanks, Add		407.85
23 21 16 00-0262 EA 24 Gallon, 13" x 51" ASME Construction Compression Tank	1,232.54	266.45
For Galvanized Steel Tanks, Add		413.86
23 21 16 00-0263 EA 30 Gallon, 13" x 61-1/2" ASME Construction Compression Tank	1,341.75	275.28
For Galvanized Steel Tanks, Add		461.84
23 21 16 00-0264 EA 40 Gallon, 16-1/4" x 53" ASME Construction Compression Tank	1,465.89	285.58
For Galvanized Steel Tanks, Add		515.82
23 21 16 00-0265 EA 60 Gallon, 16-1/4" x 76-1/2" ASME Construction Compression Tank	1,703.89	301.78
For Galvanized Steel Tanks, Add		623.78
23 21 16 00-0266 EA 80 Gallon, 20-1/4" x 68" ASME Construction Compression Tank	1,770.40	313.55
For Galvanized Steel Tanks, Add		647.77
23 21 16 00-0267 EA 100 Gallon, 20-1/4" x 82" ASME Construction Compression Tank	1,283.92	341.52
For Galvanized Steel Tanks, Add		833.71
23 21 16 00-0268 EA 120 Gallon, 24-1/4" x 71-1/2" ASME Construction Compression Tank	2,378.83	366.55
For Galvanized Steel Tanks, Add		911.67
23 21 16 00-0269 EA 144 Gallon, 24-1/4" x 83-1/2" ASME Construction Compression Tank	2,952.52	413.66
For Galvanized Steel Tanks, Add		1,163.06
23 21 16 00-0270 EA 180 Gallon, 30" x 60" ASME Construction Compression Tank	3,740.99	474.01
For Galvanized Steel Tanks, Add		1,511.46
23 21 16 00-0271 EA 202 Gallon, 30" x 72" ASME Construction Compression Tank	4,473.88	525.52
For Galvanized Steel Tanks, Add		1,839.09

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0272 EA 230 Gallon, 30" x 84" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	4,891.97 2,013.03	571.16
23 21 16 00-0273 EA 280 Gallon, 30" x 96" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	6,163.33 2,606.81	627.10
23 21 16 00-0274 EA 306 Gallon, 30" x 108" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	6,362.90 2,673.84	669.80
23 21 16 00-0275 EA 340 Gallon, 36" x 84" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	8,174.57 3,542.08	719.84
23 21 16 00-0276 EA 550 Gallon, 36" x 96" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	13,553.74 6,136.84	844.96
23 21 16 00-0277 Compression Tank Air Fittings (23 21 16)		
23 21 16 00-0278 EA 9" To 24" Diameter Compression Tank Air Fittings.....	239.87	41.21
23 21 16 00-0279 EA >100 Gallon Compression Tank Air Fittings	749.13	48.58
23 21 16 00-0280 Thermostatic Radiator Valves (23 21 16)		
Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0281 EA 1/2" Straight Thermostatic Radiator Valve (Danfoss 013G8015).....	93.49	23.75
23 21 16 00-0282 EA 3/4" Straight Thermostatic Radiator Valve (Danfoss 013G8020).....	115.63	32.00
23 21 16 00-0283 EA 1" Straight Thermostatic Radiator Valve (Danfoss 013G8025).....	151.63	38.74
23 21 16 00-0284 EA 1-1/4" Straight Thermostatic Radiator Valve (Danfoss 013G8032).....	228.62	49.08
23 21 16 00-0285 EA 1/2" Angle Thermostatic Radiator Valve (Danfoss 013G8014).....	93.49	23.75
23 21 16 00-0286 EA 3/4" Angle Thermostatic Radiator Valve (Danfoss 013G8019).....	115.63	32.00
23 21 16 00-0287 EA 1" Angle Thermostatic Radiator Valve (Danfoss 013G8024).....	151.63	38.74
23 21 16 00-0288 EA 1-1/4" Angle Thermostatic Radiator Valve (Danfoss 013G8031).....	228.62	49.08
23 21 16 00-0289 EA Tamper Resistant Valve Mounted Dial And Sensor Thermostatic Operator (Danfoss 013G8240).....	92.00	18.40
23 21 16 00-0290 EA Tamper Resistant Valve Mounted Dial With Remote Sensor Thermostatic Operator (Danfoss 013G2922).....	151.65	25.76
23 21 16 00-0291 Radiator Trap Repair Kits (23 21 16)		
Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0292 EA 1/2" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1031)	154.38	
23 21 16 00-0293 EA 3/4" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1032)	192.51	
23 21 16 00-0294 EA 1/2" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1026).....	193.55	
23 21 16 00-0295 EA 3/4" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1027).....	220.51	
23 21 16 00-0296 EA 1" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1028).....	510.58	
23 21 16 00-0297 Vortex Air Separators With Strainer (23 21 16)		
Note: Separators are priced by capacity in gallons per minute and by boiler connection sizes and types.		
23 21 16 00-0298 EA 2" Threaded, 56 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2N)	1,385.64	313.55
<i>For 300 PSIG, Add</i>	136.62	
23 21 16 00-0299 EA 2-1/2" Threaded, 90 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2-1/2N).....	1,698.50	359.19
<i>For 300 PSIG, Add</i>	172.99	
23 21 16 00-0300 EA 3" Threaded, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3N)	2,537.03	422.49
<i>For 300 PSIG, Add</i>	284.55	
23 21 16 00-0301 EA 3" Flanged, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3F).....	2,709.45	447.30
<i>For 300 PSIG, Add</i>	304.76	
23 21 16 00-0302 EA 4" Flanged, 300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-4F).....	3,506.62	596.40
<i>For 300 PSIG, Add</i>	390.45	
23 21 16 00-0303 EA 5" Flanged, 500 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-5F).....	4,399.18	709.48
<i>For 300 PSIG, Add</i>	498.77	
23 21 16 00-0304 EA 6" Flanged, 700 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-6F).....	5,199.87	803.38
<i>For 300 PSIG, Add</i>	597.39	
23 21 16 00-0305 EA 8" Flanged, 1,300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-8F).....	7,378.04	963.80
<i>For 300 PSIG, Add</i>	887.60	
23 21 16 00-0306 EA 10" Flanged, 2,000 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-10F).....	11,155.66	1,095.53
<i>For 300 PSIG, Add</i>	1,424.37	
23 21 16 00-0307 EA 12" Flanged, 2,750 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-12F).....	15,016.83	1,417.66
<i>For 300 PSIG, Add</i>	1,930.31	
23 21 16 00-0308 EA 14" Flanged, 3400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-14F).....	30,645.52	1,721.54
<i>For 300 PSIG, Add</i>	4,205.57	
23 21 16 00-0309 EA 16" Flanged, 4400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F).....	37,802.27	2,065.85
<i>For 300 PSIG, Add</i>	5,200.83	
23 21 16 00-0310 EA 18" Flanged, 5200 GPM With Strainer, Vortex Air Separator (Rolairtrol R-18F).....	49,174.68	2,410.16
<i>For 300 PSIG, Add</i>	6,828.44	
23 21 16 00-0311 EA 20" Flanged, 6300 GPM With Strainer, Vortex Air Separator (Rolairtrol R-20F).....	57,502.31	2,754.46
<i>For 300 PSIG, Add</i>	7,999.33	
23 21 16 00-0312 Vortex Air Separators (23 21 16)		
Note: Without system strainer.		
23 21 16 00-0313 EA 2" Threaded, 56 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2N).....	1,207.80	313.55
<i>For 300 PSIG, Add</i>	109.94	
23 21 16 00-0314 EA 2-1/2" Threaded, 90 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2-1/2N).....	1,504.49	359.19
<i>For 300 PSIG, Add</i>	143.89	
23 21 16 00-0315 EA 3" Threaded, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3N).....	2,488.53	422.49
<i>For 300 PSIG, Add</i>	277.28	
23 21 16 00-0316 EA 3" Flanged, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3F).....	2,283.70	447.30
<i>For 300 PSIG, Add</i>	240.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0317 EA 4" Flanged, 300 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-4F).....	3,059.32	596.40
<i>For 300 PSIG, Add</i>	323.35	
23 21 16 00-0318 EA 5" Flanged, 530 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-5F).....	3,930.32	709.48
<i>For 300 PSIG, Add</i>	428.44	
23 21 16 00-0319 EA 6" Flanged, 850 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-6F).....	4,563.94	803.38
<i>For 300 PSIG, Add</i>	502.00	
23 21 16 00-0320 EA 8" Flanged, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8F)	6,019.96	963.80
<i>For 300 PSIG, Add</i>	683.89	
23 21 16 00-0321 EA 10" Flanged, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10F)	8,250.88	1,095.53
<i>For 300 PSIG, Add</i>	988.65	
23 21 16 00-0322 EA 12" Flanged, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12F)	12,576.19	1,417.66
<i>For 300 PSIG, Add</i>	1,564.22	
23 21 16 00-0323 EA 14" Flanged, 6,100 GPM Vortex Air Separator (Rolairtrol RL-14F)	21,054.39	1,721.54
<i>For 300 PSIG, Add</i>	2,766.90	
23 21 16 00-0324 EA 16" Flanged, 8,000 GPM Vortex Air Separator (Rolairtrol RL-16F)	26,614.47	2,065.85
<i>For 300 PSIG, Add</i>	3,522.66	
23 21 16 00-0325 EA 18" Flanged, 9,700 GPM Vortex Air Separator (Rolairtrol RL-18F)	35,403.37	2,410.16
<i>For 300 PSIG, Add</i>	4,762.74	
23 21 16 00-0326 EA 20" Flanged, 12,000 GPM Vortex Air Separator (Rolairtrol RL-20F)	48,137.38	2,754.46
<i>For 300 PSIG, Add</i>	6,594.59	
23 21 16 00-0327 EA 22" Flanged, 15,000 GPM Vortex Air Separator (Rolairtrol RL-22F)	58,807.91	3,098.77
<i>For 300 PSIG, Add</i>	8,116.92	
23 21 16 00-0328 EA 24" Flanged, 17,000 GPM Vortex Air Separator (Rolairtrol RL-24F)	69,478.45	3,443.07
<i>For 300 PSIG, Add</i>	9,639.25	
23 21 16 00-0329 Grooved, With Strainer, Vortex Air Separators (23 21 16)		
23 21 16 00-0330 EA 3" Grooved, 190 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-3G)	2,358.35	357.84
23 21 16 00-0331 EA 4" Grooved, 300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-4G)	3,325.44	476.82
23 21 16 00-0332 EA 5" Grooved, 500 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-5G)	4,184.34	567.06
23 21 16 00-0333 EA 6" Grooved, 700 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-6G)	4,956.33	642.71
23 21 16 00-0334 EA 8" Grooved, 1,300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-8G)	7,075.12	771.25
23 21 16 00-0335 EA 10" Grooved, 2,000 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-10G)	11,244.01	876.42
23 21 16 00-0336 EA 12" Grooved, 2,750 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-12G)	17,015.53	1,134.26
23 21 16 00-0337 Grooved Vortex Air Separators (23 21 16)		
Note: Without system strainer.		
23 21 16 00-0338 EA 3" Grooved, 190 GPM Vortex Air Separator (Rolairtrol RL-3G).....	1,916.44	357.84
23 21 16 00-0339 EA 4" Grooved, 300 GPM Vortex Air Separator (Rolairtrol RL-4G)	2,878.14	476.82
23 21 16 00-0340 EA 5" Grooved, 530 GPM Vortex Air Separator (Rolairtrol RL-5G)	3,715.48	567.06
23 21 16 00-0341 EA 6" Grooved, 850 GPM Vortex Air Separator (Rolairtrol RL-6G)	4,320.40	642.71
23 21 16 00-0342 EA 8" Grooved, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8G)	5,727.82	771.25
23 21 16 00-0343 EA 10" Grooved, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10G)	8,296.12	876.42
23 21 16 00-0344 EA 12" Grooved, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12G)	13,615.94	1,134.26
23 21 16 00-0345 Removable Head, Air Eliminator And Dirt Separator (23 21 16)		
Note: Spirovent VDN.		
23 21 16 00-0346 EA 2", 45 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	3,722.07	313.55
23 21 16 00-0347 EA 2-1/2", 70 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	4,038.69	359.19
23 21 16 00-0348 EA 3", 95 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	5,368.80	422.49
23 21 16 00-0349 EA 4", 170 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	6,204.00	647.71
23 21 16 00-0350 EA 5", 260 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	9,003.23	800.80
23 21 16 00-0351 EA 6", 375 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	11,536.42	906.80
23 21 16 00-0352 EA 8", 625 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	17,880.81	204.62
23 21 16 00-0353 EA 10", 950 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	26,249.70	1,236.54
23 21 16 00-0354 EA 12", 1,400 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	33,928.42	1,600.14
23 21 16 00-0355 Swivel Joints (23 21 16)		
23 21 16 00-0356 Carbon Steel, Straight Through Swivel Joint (Dixon Style 20) (23 21 16 00-0355)		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0357 EA 1" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	343.65	38.71
23 21 16 00-0358 EA 1-1/2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	494.34	56.67
23 21 16 00-0359 EA 2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	685.81	66.25
23 21 16 00-0360 EA 3" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	1,030.72	113.35
23 21 16 00-0361 EA 4" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	1,298.25	128.80
<i>For Stainless Steel, Add</i>	1,560.96	
23 21 16 00-0362 EA 2" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	972.63	196.23
<i>For Stainless Steel, Add</i>	1,090.92	
23 21 16 00-0363 EA 3" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,309.03	156.55
23 21 16 00-0364 EA 4" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,703.52	419.54
23 21 16 00-0365 EA 6" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	3,071.52	529.95
23 21 16 00-0366 Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30) (23 21 16 00-0355)		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0367 EA 1" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)	431.19	38.71
<i>For Stainless Steel, Add</i>	530.57	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0368 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	535.69	56.67
<i>For Stainless Steel, Add</i>	633.68	
23 21 16 00-0369 EA 2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	716.49	66.25
<i>For Stainless Steel, Add</i>	874.01	
23 21 16 00-0370 EA 3" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,154.77	113.35
<i>For Stainless Steel, Add</i>	1,392.45	
23 21 16 00-0371 EA 4" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,500.86	128.80
<i>For Stainless Steel, Add</i>	1,864.88	
23 21 16 00-0372 EA 2" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,000.67	196.23
<i>For Stainless Steel, Add</i>	1,132.98	
23 21 16 00-0373 EA 3" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,469.61	156.55
<i>For Stainless Steel, Add</i>	1,734.62	
23 21 16 00-0374 EA 4" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,888.90	419.54
<i>For Stainless Steel, Add</i>	2,044.74	
23 21 16 00-0375 EA 6" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	3,199.54	529.95
<i>For Stainless Steel, Add</i>	3,802.10	
23 21 16 00-0376 Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40) (23 21		
<small>16 00-0355)</small>		
<small>Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.</small>		
23 21 16 00-0377 EA 1" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	503.45	38.71
<i>For Stainless Steel, Add</i>	638.96	
23 21 16 00-0378 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	590.82	56.67
<i>For Stainless Steel, Add</i>	716.37	
23 21 16 00-0379 EA 2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	855.07	66.25
<i>For Stainless Steel, Add</i>	1,081.88	
23 21 16 00-0380 EA 3" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,321.55	113.35
<i>For Stainless Steel, Add</i>	1,642.62	
23 21 16 00-0381 EA 4" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,555.99	128.80
<i>For Stainless Steel, Add</i>	1,947.57	
23 21 16 00-0382 EA 2" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,138.50	196.23
<i>For Stainless Steel, Add</i>	1,339.73	
23 21 16 00-0383 EA 3" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,640.52	156.55
<i>For Stainless Steel, Add</i>	1,990.98	
23 21 16 00-0384 EA 4" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	2,065.32	419.54
<i>For Stainless Steel, Add</i>	2,309.37	
23 21 16 00-0385 EA 6" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	3,578.58	529.95
<i>For Stainless Steel, Add</i>	4,370.66	
23 21 16 00-0386 Basket Strainers (23 21 16)		
23 21 16 00-0387 Bronze Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0388 Screwed Ends, Bronze Body Basket Strainers (23 21 16 00-0387)		
23 21 16 00-0389 EA 1/2" Screwed Ends, Bronze Body Basket Strainer.....	298.52	29.44
<i>For Work In Restricted Working Space, Add</i>	17.52	
23 21 16 00-0390 EA 3/4" Screwed Ends, Bronze Body Basket Strainer.....	352.69	34.60
<i>For Work In Restricted Working Space, Add</i>	20.59	
23 21 16 00-0391 EA 1" Screwed Ends, Bronze Body Basket Strainer.....	409.79	41.21
<i>For Work In Restricted Working Space, Add</i>	24.54	
23 21 16 00-0392 EA 1-1/4" Screwed Ends, Bronze Body Basket Strainer.....	507.06	45.63
<i>For Work In Restricted Working Space, Add</i>	27.35	
23 21 16 00-0393 EA 1-1/2" Screwed Ends, Bronze Body Basket Strainer.....	597.30	51.52
<i>For Work In Restricted Working Space, Add</i>	30.89	
23 21 16 00-0394 EA 2" Screwed Ends, Bronze Body Basket Strainer.....	879.02	58.89
<i>For Work In Restricted Working Space, Add</i>	35.36	
23 21 16 00-0395 EA 2-1/2" Screwed Ends, Bronze Body Basket Strainer.....	1,240.77	78.76
<i>For Work In Restricted Working Space, Add</i>	47.37	
23 21 16 00-0396 EA 3" Screwed Ends, Bronze Body Basket Strainer.....	1,728.98	83.91
<i>For Work In Restricted Working Space, Add</i>	50.24	
23 21 16 00-0397 Flanged, Bronze Body Basket Strainers (23 21 16 00-0387)		
23 21 16 00-0398 EA 2" Flanged, Bronze Body Basket Strainer.....	1,398.83	196.23
<i>For Work In Restricted Working Space, Add</i>	73.61	
23 21 16 00-0399 EA 2-1/2" Flanged, Bronze Body Basket Strainer.....	2,072.40	213.45
<i>For Work In Restricted Working Space, Add</i>	80.29	
23 21 16 00-0400 EA 3" Flanged, Bronze Body Basket Strainer.....	2,353.36	250.26
<i>For Work In Restricted Working Space, Add</i>	93.96	
23 21 16 00-0401 EA 4" Flanged, Bronze Body Basket Strainer.....	3,978.32	419.54
<i>For Work In Restricted Working Space, Add</i>	157.72	
23 21 16 00-0402 EA 6" Flanged, Bronze Body Basket Strainer.....	7,415.68	469.52
<i>For Work In Restricted Working Space, Add</i>	176.70	
23 21 16 00-0403 EA 8" Flanged, Bronze Body Basket Strainer.....	13,417.80	599.93
<i>For Work In Restricted Working Space, Add</i>	223.58	
23 21 16 00-0404 Iron Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0405 Screwed Ends, Iron Body Basket Strainers (23 21 16 00-0404)		
23 21 16 00-0406 EA 1/2" Screwed Ends, Iron Body Basket Strainer.....	371.67	29.44
<i>For Work In Restricted Working Space, Add</i>	17.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0407 EA 3/4" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	419.26 20.59	34.60
23 21 16 00-0408 EA 1" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	495.64 24.54	41.21
23 21 16 00-0409 EA 1-1/4" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	645.85 27.35	45.63
23 21 16 00-0410 EA 1-1/2" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	709.35 30.89	51.52
23 21 16 00-0411 EA 2" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	842.11 35.36	58.89
23 21 16 00-0412 EA 2-1/2" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,192.53 47.37	78.76
23 21 16 00-0413 EA 3" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,345.78 50.24	83.91
23 21 16 00-0414 Flanged, Iron Body Basket Strainers (23 21 16 00-0404)		
23 21 16 00-0415 EA 2" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	870.91 73.61	196.23
23 21 16 00-0416 EA 2-1/2" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,110.79 80.29	213.45
23 21 16 00-0417 EA 3" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,210.74 93.96	250.26
23 21 16 00-0418 EA 4" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,876.59 157.72	419.54
23 21 16 00-0419 EA 6" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,218.16 176.70	469.52
23 21 16 00-0420 EA 8" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	5,595.62 223.58	599.93
23 21 16 00-0421 EA 10" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	8,211.14 273.88	730.35
23 21 16 00-0422 EA 12" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	10,499.47 552.40	920.77
23 21 16 00-0423 EA 14" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	12,228.85 391.26	1,043.36
23 21 16 00-0424 EA 16" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	12,857.90 430.38	1,147.69
23 21 16 00-0425 Cast Steel Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0426 Screwed Ends, Cast Steel Body Basket Strainers (23 21 16 00-0425)		
23 21 16 00-0427 EA 1" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	907.94 24.54	41.21
23 21 16 00-0428 EA 1-1/4" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,193.88 27.35	45.63
23 21 16 00-0429 EA 1-1/2" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,345.65 30.88	51.52
23 21 16 00-0430 EA 2" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,885.70 35.36	58.89
23 21 16 00-0431 EA 2-1/2" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,643.33 47.36	78.76
23 21 16 00-0432 EA 3" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	3,423.10 50.25	83.91
23 21 16 00-0433 Flanged, Cast Steel Body Basket Strainers (23 21 16 00-0425)		
23 21 16 00-0434 EA 2" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,818.32 73.61	196.23
23 21 16 00-0435 EA 2-1/2" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	4,030.83 80.29	213.45
23 21 16 00-0436 EA 3" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	4,426.45 93.96	250.26
23 21 16 00-0437 EA 4" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	6,301.80 157.72	419.54
23 21 16 00-0438 EA 6" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	11,003.39 176.70	469.52
23 21 16 00-0439 EA 8" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	17,810.88 223.58	599.93
23 21 16 00-0440 Stainless Steel Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0441 Screwed Ends, Stainless Steel Body Basket Strainers (23 21 16 00-0440)		
23 21 16 00-0442 EA 1" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	565.48 24.54	41.21
23 21 16 00-0443 EA 1-1/4" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	807.14 27.35	45.63
23 21 16 00-0444 EA 1-1/2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	835.64 30.88	51.52
23 21 16 00-0445 EA 2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,226.55 35.36	58.89
23 21 16 00-0446 EA 2-1/2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,731.08 47.36	78.76

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0447 EA 3" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,430.33 50.25	83.91
23 21 16 00-0448 Flanged, Stainless Steel Body Basket Strainers (23 21 16 00-0440)		
23 21 16 00-0449 EA 2" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,895.18 73.61	196.23
23 21 16 00-0450 EA 2-1/2" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,836.97 80.29	213.45
23 21 16 00-0451 EA 3" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	3,215.36 93.96	250.26
23 21 16 00-0452 EA 4" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	5,434.52 157.72	419.54
23 21 16 00-0453 EA 6" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	8,251.47 176.70	469.52
23 21 16 00-0454 EA 8" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	14,250.38 223.58	599.93
23 21 16 00-0455 Air Vents (23 21 16)		
23 21 16 00-0456 Screwed Ends, Cast Iron, Automatic Air Vents (23 21 16 00-0455) Note: With guided free floating lever.		
23 21 16 00-0457 EA 1/2" NPT, Cast Iron, Automatic Air Vent	429.71	42.69
23 21 16 00-0458 EA 3/4" NPT, Cast Iron, Automatic Air Vent	525.50	56.67
23 21 16 00-0459 EA 1" NPT, Cast Iron, Automatic Air Vent	1,209.00	58.89
23 21 16 00-0460 EA 1-1/4" NPT, Cast Iron, Automatic Air Vent	1,792.18	90.98
23 21 16 00-0461 EA 1-1/2" NPT, Cast Iron, Automatic Air Vent	2,996.70	97.89
23 21 16 00-0462 EA 2" NPT, Cast Iron, Automatic Air Vent	3,438.32	129.10
23 21 16 00-0463 Forged Steel, Stainless Steel Internals, Automatic Air Vents (23 21 16 00-0455) Note: With guided free floating lever.		
23 21 16 00-0464 EA 1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	2,402.81	49.31
23 21 16 00-0465 EA 3/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	3,010.79	56.67
23 21 16 00-0466 EA 1" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	3,591.47	58.89
23 21 16 00-0467 EA 1-1/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	5,892.01	91.27
23 21 16 00-0468 EA 1-1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	6,804.20	97.89
23 21 16 00-0469 EA 2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	10,001.30	128.80
23 21 16 00-0470 Automatic Air Vent (23 21 16 00-0455)		
23 21 16 00-0471 EA 3/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	265.72	56.67
23 21 16 00-0472 EA 1" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	289.59	58.89
23 21 16 00-0473 EA 1-1/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	413.30	90.98
23 21 16 00-0474 EA 1-1/2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	504.67	97.89
23 21 16 00-0475 EA 2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	635.75	105.49
23 21 16 00-0476 Manual Air Vent (23 21 16 00-0455)		
23 21 16 00-0477 EA Manual Air Vent	96.78	53.14
23 21 16 00-0478 Air Release Valves (23 21 16 00-0455)		
23 21 16 00-0479 Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) (23 21 16 00-0478) Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0480 EA 1/2" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	207.16	22.09
23 21 16 00-0481 EA 3/4" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	213.06	25.02
23 21 16 00-0482 EA 1" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	224.82	30.92
23 21 16 00-0483 Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200) (23 21 16 00-0478) Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0484 EA 1" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200A)	823.52	30.92
23 21 16 00-0485 EA 2" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200)	994.90	53.73
23 21 16 00-0486 EA 3" Flanged, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200)	1,307.95	125.28
23 21 16 00-0487 Cast Iron, Air/Vacuum Valves (23 21 16 00-0478) Note: Up to 150 psi. Stainless steel float.		
23 21 16 00-0488 EA 1/2" NPT, Cast Iron, Air/Vacuum Valve (Apco 141)	401.21	22.09
23 21 16 00-0489 EA 1" NPT, Cast Iron, Air/Vacuum Valve (Apco 142)	496.49	30.92
23 21 16 00-0490 EA 2" NPT, Cast Iron, Air/Vacuum Valve (Apco 144)	857.78	53.73
23 21 16 00-0491 EA 3" Flanged, Cast Iron, Air/Vacuum Valve (Apco 146)	1,245.85	125.28
23 21 16 00-0492 EA 4" Flanged, Cast Iron, Air/Vacuum Valve (Apco 152)	1,952.38	210.30
23 21 16 00-0493 EA 6" Flanged, Cast Iron, Air/Vacuum Valve (Apco 153)	2,958.51	265.93



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 21 16 00-0494			Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice <small>(23 21 16 00-0478)</small> Note: Up to 150 psi. Stainless Steel float.		
23 21 16 00-0495	EA		1" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 143C).....	713.82	30.92
23 21 16 00-0496	EA		2" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 145C).....	1,098.40	53.73
23 21 16 00-0497	EA		3" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 147C).....	2,009.11	125.28
23 21 16 00-0498	EA		4" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 149C).....	2,617.31	210.30

23 21 23 Hydronic Pumps (23 21)

23 21 23 13 In-Line Centrifugal Hydronic Pumps (23 21 23)

23 21 23 13-0001			Cast Iron Single Stage In-Line Centrifugal Pump <small>(23 21 23 13)</small> Note: For general service, 125 LB flanged, 3550 RPM TEFC motor. Includes packed stuffing boxes and ductile iron case.		
23 21 23 13-0002	EA		3 HP, 50 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump	5,475.98	393.08
			<i>For Mechanical Seal, Add</i>	343.79	
			<i>For Cast Steel Case, Add</i>	773.52	
23 21 23 13-0003	EA		5 HP, 75 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump	6,033.63	475.76
			<i>For Mechanical Seal, Add</i>	368.55	
			<i>For Cast Steel Case, Add</i>	829.23	
23 21 23 13-0004	EA		7-1/2 HP, 100 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump	6,991.58	565.23
			<i>For Mechanical Seal, Add</i>	423.78	
			<i>For Cast Steel Case, Add</i>	953.51	
23 21 23 13-0005	EA		10 HP, 125 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump	7,971.21	753.63
			<i>For Mechanical Seal, Add</i>	456.97	
			<i>For Cast Steel Case, Add</i>	1,028.18	
23 21 23 13-0006	EA		15 HP, 150 GPM At 200' Head, Single Stage Cast Iron In-Line Circulating Pump	9,089.53	821.40
			<i>For Mechanical Seal, Add</i>	530.00	
			<i>For Cast Steel Case, Add</i>	1,192.51	
23 21 23 13-0007	EA		30 HP, 200 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	13,210.22	904.08
			<i>For Mechanical Seal, Add</i>	839.94	
			<i>For Cast Steel Case, Add</i>	1,889.87	
23 21 23 13-0008	EA		40 HP, 250 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	15,601.94	1,129.10
			<i>For Mechanical Seal, Add</i>	977.06	
			<i>For Cast Steel Case, Add</i>	2,198.39	
23 21 23 13-0009	EA		50 HP, 300 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	21,377.69	1,290.39
			<i>For Mechanical Seal, Add</i>	1,400.40	
			<i>For Cast Steel Case, Add</i>	3,150.89	
23 21 23 13-0010	EA		75 HP, 400 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump	26,854.09	1,352.46
			<i>For Mechanical Seal, Add</i>	1,823.73	
			<i>For Cast Steel Case, Add</i>	4,103.39	
23 21 23 13-0011	EA		100 HP, 600 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump	29,627.65	1,738.50
			<i>For Mechanical Seal, Add</i>	1,952.87	
			<i>For Cast Steel Case, Add</i>	4,393.95	

23 21 23 13-0012 Cast Iron, Single Stage, Vertical In-Line, Close Coupled, Pump (23 21 23 13)

			Note: For general service, 125 LB flanged, 1,800 RPM TEFC motor.		
23 21 23 13-0013	EA		1/2 HP, 1-1/2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	2,184.05	225.69
23 21 23 13-0014	EA		3/4 HP, 2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	3,739.34	257.95
23 21 23 13-0015	EA		1 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	4,071.43	288.85
23 21 23 13-0016	EA		1-1/2 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	4,290.40	314.06
23 21 23 13-0017	EA		2 HP, 4" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	5,551.71	343.88
23 21 23 13-0018	EA		3 HP, 5" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	5,732.15	380.07
23 21 23 13-0019	EA		5 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	6,567.84	451.36
23 21 23 13-0020	EA		7-1/2 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	7,669.70	555.60
23 21 23 13-0021	EA		10 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	9,769.26	601.82
23 21 23 13-0022	EA		15 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	11,358.08	637.20
23 21 23 13-0023	EA		20 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	14,466.38	677.05
23 21 23 13-0024	EA		25 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	15,251.46	699.69
23 21 23 13-0025	EA		30 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	16,036.53	722.19
23 21 23 13-0026	EA		40 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	18,965.02	773.83
23 21 23 13-0027	EA		50 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	20,313.49	808.82
23 21 23 13-0028	EA		60 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	22,636.25	1,168.23
23 21 23 13-0029	EA		75 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	27,387.68	2,336.47
23 21 23 13-0030	EA		100 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	31,564.56	2,803.75

23 21 23 16 Base-Mounted, Centrifugal Hydronic Pumps (23 21 23)

See CSI section 26 29 23 00-0000 for variable frequency motor controllers.

23 21 23 16-0001			Single Stage, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small> Note: 1800 RPM, welded steel baseplate, internally flushed mechanical seal, bronze wear ring, galvanized drip pan, and 3 phase 230/460V premium efficiency motor. Bell & Gossett 1510 Series.		
23 21 23 16-0002	EA		5 HP, 50 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/4 BC, BF, 184T).....	7,522.87	429.68
23 21 23 16-0003	EA		7.5 HP, 100 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/2 BC, BF, 213T).....	8,434.14	430.22
23 21 23 16-0004	EA		10 HP, 225 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 215T).....	11,115.26	565.23
23 21 23 16-0005	EA		15 HP, 250 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 254T).....	12,190.76	695.35
23 21 23 16-0006	EA		15 HP, 300 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 G, BF, 254T).....	13,634.39	695.35
23 21 23 16-0007	EA		20 HP, 350 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 E, BF, 256T).....	13,272.89	753.63

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0008	EA		20 HP, 500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 256T).....	14,093.66	753.63
23 21 23 16-0009	EA		25 HP, 600 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 284T).....	15,396.67	790.23
23 21 23 16-0010	EA		30 HP, 750 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 286T).....	17,153.27	1,004.40
23 21 23 16-0011	EA		40 HP, 1,050 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 324T).....	18,162.39	1,129.10
23 21 23 16-0012	EA		60 HP, 1,500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 6 E, BF, 364T).....	27,335.49	2,456.17
23 21 23 16-0013	EA		75 HP, 2,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 365T).....	39,678.19	2,946.88
23 21 23 16-0014	EA		100 HP, 3,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 404TS).....	44,972.42	3,683.61

23 21 23 16-0015 Single Stage, Vertical Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)

Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.

23 21 23 16-0016	EA		1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	5,596.12	315.82
			<i>For 300 LB Flanges, Add</i>	1,256.65	
23 21 23 16-0017	EA		2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	7,007.95	338.87
			<i>For 300 LB Flanges, Add</i>	1,624.91	
23 21 23 16-0018	EA		3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	8,764.82	361.91
			<i>For 300 LB Flanges, Add</i>	2,040.60	
23 21 23 16-0019	EA		5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	10,263.51	429.68
			<i>For 300 LB Flanges, Add</i>	2,372.24	
23 21 23 16-0020	EA		7-1/2 HP, 150 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	10,786.35	430.22
			<i>For 300 LB Flanges, Add</i>	2,493.27	
23 21 23 16-0021	EA		10 HP, 200 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	11,366.16	565.23
			<i>For 300 LB Flanges, Add</i>	2,587.39	
23 21 23 16-0022	EA		10 HP, 225 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	11,607.16	565.23
			<i>For 300 LB Flanges, Add</i>	2,647.64	
23 21 23 16-0023	EA		10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	12,141.00	565.23
			<i>For 300 LB Flanges, Add</i>	2,781.10	
23 21 23 16-0024	EA		15 HP, 300 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	14,133.61	695.35
			<i>For 300 LB Flanges, Add</i>	3,220.61	
23 21 23 16-0025	EA		17-1/2 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	14,370.05	694.81
			<i>For 300 LB Flanges, Add</i>	3,267.10	
23 21 23 16-0026	EA		20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	15,138.31	753.63
			<i>For 300 LB Flanges, Add</i>	3,445.71	
23 21 23 16-0027	EA		25 HP, 600 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	16,598.47	790.23
			<i>For 300 LB Flanges, Add</i>	3,783.67	
23 21 23 16-0028	EA		30 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	18,450.58	1,004.40
			<i>For 300 LB Flanges, Add</i>	4,160.83	
23 21 23 16-0029	EA		40 HP, 1,050 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	20,921.00	1,129.10
			<i>For 300 LB Flanges, Add</i>	4,721.95	
23 21 23 16-0030	EA		60 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	32,948.11	2,456.17
			<i>For 300 LB Flanges, Add</i>	7,053.01	
23 21 23 16-0031	EA		75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	39,209.02	2,946.88
			<i>For 300 LB Flanges, Add</i>	8,381.43	
23 21 23 16-0032	EA		100 HP, 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	47,895.34	3,683.61
			<i>For 300 LB Flanges, Add</i>	10,197.81	

23 21 23 16-0033 Single Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)

Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.

23 21 23 16-0034	EA		1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	5,389.09	315.82
			<i>For 300 LB Flanges, Add</i>	1,204.89	
23 21 23 16-0035	EA		2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	5,546.90	338.87
			<i>For 300 LB Flanges, Add</i>	1,234.22	
23 21 23 16-0036	EA		3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	5,704.89	361.91
			<i>For 300 LB Flanges, Add</i>	1,263.57	
23 21 23 16-0037	EA		5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	6,173.65	370.04
			<i>For 300 LB Flanges, Add</i>	1,376.76	
23 21 23 16-0038	EA		7-1/2 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	9,890.23	429.68
			<i>For 300 LB Flanges, Add</i>	2,278.92	
23 21 23 16-0039	EA		10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	11,946.82	565.23
			<i>For 300 LB Flanges, Add</i>	2,766.95	
23 21 23 16-0040	EA		15 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	13,450.03	609.95
			<i>For 300 LB Flanges, Add</i>	3,108.36	
23 21 23 16-0041	EA		20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	14,325.91	677.72
			<i>For 300 LB Flanges, Add</i>	3,268.68	
23 21 23 16-0042	EA		25 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	15,852.31	676.88
			<i>For 300 LB Flanges, Add</i>	3,658.77	
23 21 23 16-0043	EA		40 HP, 1,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	17,877.05	869.90
			<i>For 300 LB Flanges, Add</i>	4,078.00	
23 21 23 16-0044	EA		50 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	22,447.61	982.74
			<i>For 300 LB Flanges, Add</i>	5,138.30	
23 21 23 16-0045	EA		75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	28,628.76	1,227.43
			<i>For 300 LB Flanges, Add</i>	6,565.18	
23 21 23 16-0046	EA		3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 100 HP.....	35,943.65	1,473.45
			<i>For 300 LB Flanges, Add</i>	8,275.50	
23 21 23 16-0047	EA		150 HP, 3,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	42,506.04	1,636.58
			<i>For 300 LB Flanges, Add</i>	9,837.17	
23 21 23 16-0048	EA		200 HP, 4,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	49,106.17	2,104.91
			<i>For 300 LB Flanges, Add</i>	11,261.67	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 21 23 16-0049			Two Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small> Note: 3500 RPM drip-proof motor, common base plate 500' head. Packed stuffing box and boiler feed water service.		
23 21 23 16-0050	EA		40 HP, 100 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	32,896.09	695.35
			<i>For 300 LB Flanges, Add</i>	7,911.23	
23 21 23 16-0051	EA		50 HP, 200 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	35,515.17	753.63
			<i>For 300 LB Flanges, Add</i>	8,539.93	
23 21 23 16-0052	EA		75 HP, 300 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	47,273.63	960.55
			<i>For 300 LB Flanges, Add</i>	11,378.58	
23 21 23 16-0053	EA		100 HP, 400 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	55,383.05	1,319.87
			<i>For 300 LB Flanges, Add</i>	13,241.00	
23 21 23 16-0054	EA		200 HP, 800 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	76,778.43	1,759.82
			<i>For 300 LB Flanges, Add</i>	18,388.26	

23 21 23 16-0055			Cast Iron Close Coupling Pumps <small>(23 21 23 16)</small>		
23 21 23 16-0056			Foot Mounted Cast Iron Close Coupled Pumps <small>(23 21 23 16-0055)</small>		
23 21 23 16-0057	EA		3 HP, 90 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 1-1/2 AC, BF, 182JM)	6,738.17	406.64
23 21 23 16-0058	EA		3 HP, 150 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 AB, BF, 182JM)	7,328.60	406.64
23 21 23 16-0059	EA		5 HP, 225 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 BB, BF, 184JM)	8,145.77	429.24
23 21 23 16-0060	EA		5 HP, 350 GPM At 25' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 184JM)	8,668.07	429.24
23 21 23 16-0061	EA		7.5 HP, 350 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 213JM)	9,955.64	451.36
23 21 23 16-0062	EA		10 HP, 600 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 5 A, BF, 215JM)	11,800.57	543.42
23 21 23 16-0063	EA		15 HP, 1,000 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 254JP)	15,484.56	669.45
23 21 23 16-0064	EA		20 HP, 1,350 GPM At 30' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 256JP)	16,577.62	724.56
23 21 23 16-0065	EA		25 HP, 1,550 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 284JP)	19,191.06	782.52

23 21 23 16-0066			Pumps, Polypropylene Body, Housing And Impeller, 115/230 Volt <small>(23 21 23 16)</small>		
23 21 23 16-0067	EA		1/3 HP, Centrifugal Pump, Polypropylene Body	1,704.78	210.07
23 21 23 16-0068	EA		1/2 HP, Centrifugal Pump, Polypropylene Body	1,818.45	222.73
23 21 23 16-0069	EA		3/4 HP, Centrifugal Pump, Polypropylene Body	2,117.07	237.15

23 21 23 23 Vertical-Turbine Hydronic Pumps (23 21 23)
 See CSI section 26 29 23 00-0000 for variable frequency motor controllers.

23 21 23 23-0001			Cast Iron, Bronze Fitted Vertical Turbine Wet Sump Pumps <small>(23 21 23 23)</small> Note: For water supply, cooling towers and process liquids. Multi-stage 1750 RPM drip-proof motor. For 1' to 5' sump depth.		
23 21 23 23-0002	EA		2 HP, 50 GPM Cast Iron Turbine Pump, 3" Discharge 100' Head, 10 Stage	11,304.76	1,004.40
			<i>For Each Extra Column Assembly <60", Add</i>	964.62	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	391.95	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	278.90	
23 21 23 23-0003	EA		3 HP, 100 GPM Cast Iron Turbine Pump, 4" Discharge 100' Head, 7 Stage	12,898.73	1,129.10
			<i>For Each Extra Column Assembly <60", Add</i>	1,092.63	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	455.22	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	326.23	
23 21 23 23-0004	EA		15 HP, 250 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 5 Stage	15,252.02	982.74
			<i>For Each Extra Column Assembly <60", Add</i>	1,290.64	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	539.60	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	387.08	
23 21 23 23-0005	EA		25 HP, 500 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 3 Stage	17,859.08	1,134.02
			<i>For Each Extra Column Assembly <60", Add</i>	1,501.59	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	641.50	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	462.91	
23 21 23 23-0006	EA		50 HP, 1,000 GPM Cast Iron Turbine Pump, 8" Discharge 150' Head, 2 Stage	21,864.75	1,227.43
			<i>For Each Extra Column Assembly <60", Add</i>	1,828.11	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	795.66	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	577.01	
23 21 23 23-0007	EA		100 HP, 2,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 3 Stage	28,639.92	1,473.45
			<i>For Each Extra Column Assembly <60", Add</i>	2,385.92	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	1,050.88	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	764.48	
23 21 23 23-0008	EA		150 HP, 3,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 2 Stage	34,341.23	1,841.81
			<i>For Each Extra Column Assembly <60", Add</i>	2,865.70	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	1,255.25	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	911.84	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	23	23-0009	EA 200 HP, 4,000 GPM Cast Iron Turbine Pump, 12" Discharge 150' Head, 2 Stage <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	54,328.53 4,481.60 2,037.82 1,494.54	2,104.91
23 21	23	23-0010	EA 250 HP, 6,000 GPM Cast Iron Turbine Pump, 14" Discharge 150' Head, 2 Stage <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	70,995.91 5,837.54 2,681.97 1,972.01	2,456.17
23 21	23	23-0011	EA 300 HP, 10,000 GPM Cast Iron Turbine Pump, 18" Discharge 100' Head, 2 Stage <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	98,999.29 8,109.39 3,770.53 2,780.54	2,946.88

23 21 29 Automatic Condensate Pump Units (23 21)**23 21 29 00-0001 Automatic Shallow Pan Condensate Pump (23 21 29)**

23 21	29	00-0002	EA 1/150 HP, 205 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 1-ABS).....	211.60	44.05
23 21	29	00-0003	EA 1/40 HP, 300 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 2-ABS).....	227.05	44.05
23 21	29	00-0004	EA 1/12 HP, 310 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 3-ABS).....	342.25	50.83

23 21 29 00-0005 Automatic Condensate Pump With Tank (23 21 29)

23 21	29	00-0006	EA 1/20 HP Automatic Condensate Pump With Tank (Hartell KT-15-1UL).....	122.46	33.89
23 21	29	00-0007	EA 1/30 HP Automatic Condensate Pump With Tank (Little Giant VCMX-20).....	129.06	33.89
23 21	29	00-0008	EA 1/50 HP, 200 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-14ULS).....	206.55	44.05
23 21	29	00-0009	EA 1/18 HP, 270 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-24ULS).....	225.15	50.83
23 21	29	00-0010	EA 1/5 HP, 450 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-45ULS) Condensate Pump.....	391.75	57.61

23 22 Steam and Condensate Piping and Pumps (23 20)**23 22 16 Steam and Condensate Heating Piping Specialties (23 22)****23 22 16 00-0001 Steam Temperature Regulator, Iron Body (23 22 16)****23 22 16 00-0002 Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)**

Note: Up to 150 PSI.

23 22	16	00-0003	EA 1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,308.08	21.19
23 22	16	00-0004	EA 3/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,379.52	28.55
23 22	16	00-0005	EA 1" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,829.39	35.17
23 22	16	00-0006	EA 1-1/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,022.77	44.44
23 22	16	00-0007	EA 1-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,078.48	51.06
23 22	16	00-0008	EA 2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,453.56	55.55
23 22	16	00-0009	EA 2-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,139.62	101.75
23 22	16	00-0010	EA 3" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,454.81	110.96
23 22	16	00-0011	EA 4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,716.72	259.73
23 22	16	00-0012	EA 6" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	6,025.32	304.85

23 22 16 00-0013 Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)

23 22	16	00-0014	EA 1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,933.92	21.19
23 22	16	00-0015	EA 3/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,006.32	28.55
23 22	16	00-0016	EA 1" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,098.54	35.17
23 22	16	00-0017	EA 1-1/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,513.14	44.44
23 22	16	00-0018	EA 1-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,694.23	51.06
23 22	16	00-0019	EA 2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,058.22	55.55
23 22	16	00-0020	EA 2-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,695.57	101.75
23 22	16	00-0021	EA 3" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,345.76	110.96
23 22	16	00-0022	EA 4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,761.19	259.73
23 22	16	00-0023	EA 6" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	7,549.31	304.85

23 22 16 00-0024 Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)

23 22	16	00-0025	EA 1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,631.71	21.19
23 22	16	00-0026	EA 3/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,673.67	28.55
23 22	16	00-0027	EA 1" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,928.13	35.17
23 22	16	00-0028	EA 1-1/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,191.58	44.44
23 22	16	00-0029	EA 1-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,309.98	51.06
23 22	16	00-0030	EA 2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,732.98	55.55
23 22	16	00-0031	EA 2-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	6,907.81	101.75
23 22	16	00-0032	EA 3" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,681.01	110.96
23 22	16	00-0033	EA 4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	6,068.55	259.73
23 22	16	00-0034	EA 6" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	8,437.91	304.85



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0035				Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
23 22 16 00-0036	EA			1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,369.13	21.19
23 22 16 00-0037	EA			3/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,407.41	28.55
23 22 16 00-0038	EA			1" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,702.42	35.17
23 22 16 00-0039	EA			1-1/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,862.60	44.44
23 22 16 00-0040	EA			1-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,014.20	51.06
23 22 16 00-0041	EA			2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,370.84	55.55
23 22 16 00-0042	EA			2-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,276.52	101.75
23 22 16 00-0043	EA			3" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,913.64	110.96
23 22 16 00-0044	EA			4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	6,301.17	259.73
23 22 16 00-0045	EA			6" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	8,670.54	304.85
23 22 16 00-0046				High Temperature Safety Relief Valve (23 22 16)		
				Note: Used in steam or water boiler, heating systems and unfired pressure vessel applications.		
23 22 16 00-0047				Cast Iron Body Safety Valve, Steam Or Water (23 22 16 00-0046)		
				Note: Variable set points to 500 psig pressure, 400 Degree F temperature range.		
23 22 16 00-0048				Threaded (23 22 16 00-0047)		
23 22 16 00-0049	EA			3/4" x 1" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	503.67	22.08
23 22 16 00-0050	EA			1" x 1-1/4" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	529.99	26.12
23 22 16 00-0051	EA			1-1/4" x 1-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	588.72	33.11
23 22 16 00-0052	EA			1-1/2" x 2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	722.29	36.79
23 22 16 00-0053	EA			2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	922.95	45.25
23 22 16 00-0054	EA			2-1/2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	1,414.30	51.51
23 22 16 00-0055	EA			3" x 3" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	1,535.56	59.23
23 22 16 00-0056				Flanged (23 22 16 00-0047)		
23 22 16 00-0057	EA			1-1/2" x 2-1/2" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	3,445.77	154.52
23 22 16 00-0058	EA			2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	4,026.78	232.27
23 22 16 00-0059	EA			2-1/2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	4,436.27	213.84
23 22 16 00-0060	EA			2-1/2" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	5,402.64	308.86
23 22 16 00-0061	EA			3" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	5,737.32	230.33
23 22 16 00-0062	EA			3" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	6,751.94	308.86
23 22 16 00-0063	EA			4" x 6" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	11,276.28	438.30
23 22 16 00-0064	EA			6" x 8" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	22,318.19	489.50
23 22 16 00-0065				Bronze Body Safety Valve, Threaded, Steam (23 22 16 00-0046)		
				Note: Variable set points to 250 psig pressure, 400 Degree F temperature range. Valve also can be set for Air or Gas with variable set points to 300 psig pressure.		
23 22 16 00-0066	EA			3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Steam	544.52	20.24
23 22 16 00-0067	EA			3/4" x 1" Threaded Bronze Body Safety Relief Valve, Steam	559.02	22.08
23 22 16 00-0068	EA			1" x 1" Threaded Bronze Body Safety Relief Valve, Steam	652.87	24.28
23 22 16 00-0069	EA			1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	720.31	26.12
23 22 16 00-0070	EA			1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	832.69	29.43
23 22 16 00-0071	EA			1-1/4" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	840.10	33.11
23 22 16 00-0072	EA			1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	942.81	34.95
23 22 16 00-0073	EA			1-1/2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,026.27	36.79
23 22 16 00-0074	EA			2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,415.93	41.20
23 22 16 00-0075	EA			2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	1,547.64	45.25
23 22 16 00-0076	EA			2-1/2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	1,844.38	51.51
23 22 16 00-0077				Bronze Body Safety Valve, Threaded, Water (23 22 16 00-0046)		
				Note: Variable set points to 160 psig pressure, 250 Degree F temperature range.		
23 22 16 00-0078	EA			3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Water	265.95	20.24
23 22 16 00-0079	EA			3/4" x 1" Threaded Bronze Body Safety Relief Valve, Water	302.19	22.08
23 22 16 00-0080	EA			1" x 1" Threaded Bronze Body Safety Relief Valve, Water	412.91	24.28
23 22 16 00-0081	EA			1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	454.09	26.12
23 22 16 00-0082	EA			1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	649.30	29.43
23 22 16 00-0083	EA			1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Water	871.61	34.95
23 22 16 00-0084	EA			2" x 2" Threaded Bronze Body Safety Relief Valve, Water	1,262.56	41.20
23 22 16 00-0085				Steam Traps (23 22 16)		
23 22 16 00-0086				Inverted Bucket Steam Traps (23 22 16 00-0085)		
23 22 16 00-0087	EA			1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap	344.57	44.16
				<i>For Work In Restricted Working Space, Add</i>	26.50	
23 22 16 00-0088	EA			3/4" 250 PSI Inverted Bucket Cast Iron Steam Trap	348.25	46.00
				<i>For Work In Restricted Working Space, Add</i>	27.60	
23 22 16 00-0089	EA			1" 250 PSI Inverted Bucket Cast Iron Steam Trap	510.64	49.02
				<i>For Work In Restricted Working Space, Add</i>	29.44	
23 22 16 00-0090	EA			1-1/4" 250 PSI Inverted Bucket Cast Iron Steam Trap	821.31	66.90
				<i>For Work In Restricted Working Space, Add</i>	40.15	
23 22 16 00-0091	EA			1-1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap	1,216.06	82.44
				<i>For Work In Restricted Working Space, Add</i>	49.07	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0092 EA 2" 250 PSI Inverted Bucket Cast Iron Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	1,558.62 73.61	122.67
23 22 16 00-0093 Float And Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0094 EA 3/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	363.97 27.60	46.00
23 22 16 00-0095 EA 1" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	475.21 29.44	49.06
23 22 16 00-0096 EA 1-1/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	590.06 40.15	66.91
23 22 16 00-0097 EA 1-1/2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	794.80 49.07	81.78
23 22 16 00-0098 EA 2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,443.24 73.61	122.62
23 22 16 00-0099 EA 3/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	458.66 27.60	46.00
23 22 16 00-0100 EA 1" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	498.13 29.44	49.02
23 22 16 00-0101 EA 1-1/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	652.55 40.15	66.90
23 22 16 00-0102 EA 1-1/2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	932.29 49.07	81.70
23 22 16 00-0103 EA 2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,582.83 73.61	122.67
23 22 16 00-0104 EA 3/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	589.91 27.60	46.00
23 22 16 00-0105 EA 1" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	656.46 29.44	49.06
23 22 16 00-0106 EA 1-1/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	996.31 40.15	66.90
23 22 16 00-0107 EA 1-1/2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,026.05 49.07	81.70
23 22 16 00-0108 EA 2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,976.56 73.61	122.67
23 22 16 00-0109 EA 3/4" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	598.24 27.60	46.00
23 22 16 00-0110 EA 1" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	656.46 29.44	49.06
23 22 16 00-0111 EA 1-1/4" 150 PSI Max Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	996.31 40.15	66.90
23 22 16 00-0112 EA 1-1/2" 150 PSI Max Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,026.05 49.07	81.70
23 22 16 00-0113 EA 2" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,976.56 73.61	122.67
23 22 16 00-0114 Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0115 EA 1/2" 25 PSI Maximum Pressure Thermostatic Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	184.97 26.50	44.16
23 22 16 00-0116 EA 3/4" 25 PSI Maximum Pressure Thermostatic Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	298.23 27.60	46.00
23 22 16 00-0117 EA 1" 25 PSI Maximum Pressure Thermostatic Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	365.27 29.44	49.02
23 22 16 00-0118 Thermodynamic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0119 EA 3/8" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	386.71	39.75
23 22 16 00-0120 EA 1/2" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	542.49	44.16
23 22 16 00-0121 EA 3/4" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	669.06	46.00
23 22 16 00-0122 EA 1" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	891.87	49.02
23 22 16 00-0123 Steam Moisture Separator (23 22 16 00-0085)		
23 22 16 00-0124 EA 1/2" Steam Moisture Separator, Threaded (Spirax Sarco S1)	694.95	73.60
23 22 16 00-0125 EA 3/4" Steam Moisture Separator, Threaded (Spirax Sarco S1)	750.49	99.37
23 22 16 00-0126 EA 1" Steam Moisture Separator, Threaded (Spirax Sarco S1)	898.67	111.88
23 22 16 00-0127 EA 1-1/2" Steam Moisture Separator, Threaded (Spirax Sarco S2)	1,389.99	128.07
23 22 16 00-0128 EA 2" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	1,727.83	196.23
23 22 16 00-0129 EA 2-1/2" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	2,563.34	213.45
23 22 16 00-0130 EA 3" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	2,959.04	250.26
23 22 16 00-0131 EA 4" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	4,059.13	419.54
23 22 16 00-0132 EA 6" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	7,770.85	529.95
23 22 16 00-0133 Steam/Condensate Meter (23 22 16)		
Note: Meter shall be of the rotary volumetric type and sized on the maximum estimated steam demand.		
23 22 16 00-0134 EA 1" Steam/Condensate Meter.....	5,475.11	121.94
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0135 EA 2" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	6,179.36 1,220.00 567.00 905.00 79.82 64.52	143.28
23 22 16 00-0136 EA 2-1/2" Steam/Condensate Meter For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	6,563.34 1,220.00 567.00 905.00 79.82 64.52	177.82
23 22 16 00-0137 EA 3" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	6,975.76 1,220.00 567.00 905.00 79.82 64.52	233.72
23 22 16 00-0138 EA 4" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	7,898.69 1,220.00 567.00 905.00 79.82 64.52	363.10
23 22 16 00-0139 EA 6" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	13,471.33 1,220.00 567.00 905.00 79.82 64.52	459.31
23 22 16 00-0140 EA 8" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	13,989.24 1,220.00 567.00 905.00 79.82 64.52	579.89
23 22 16 00-0141 EA 10" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	14,670.86 1,220.00 567.00 905.00 79.82 64.52	711.31
23 22 16 00-0142 EA 12" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	15,418.48 1,220.00 567.00 905.00 79.82 64.52	863.74
23 22 16 00-0143 EA 14" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	16,447.69 1,220.00 567.00 905.00 79.82 64.52	1,016.15
23 22 16 00-0144 EA 16" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	17,052.49 1,220.00 567.00 905.00 79.82 64.52	1,117.77

23 22 23 Steam Condensate Pumps (23 22)

23 22 23 13 Electric-Driven Steam Condensate Pumps (23 22 23)

23 22 23 13-0001 Simplex Condensate Pumps And Motors (23 22 23 13)
Note: Cast iron receiver, float switch.

23 22 23 13-0002 20 PSI Discharge Pressure (23 22 23 13-0001)

23 22 23 13-0003 EA 3 To 6 GPM Simplex Condensate Pump And 1/3 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	1,984.62	689.93
23 22 23 13-0004 EA 9 To 12 GPM Simplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,434.70	708.91
23 22 23 13-0005 EA 15 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,555.93	756.34
23 22 23 13-0006 EA 22.5 GPM Simplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,770.38	764.48
23 22 23 13-0007 EA 30 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,080.95	832.25
23 22 23 13-0008 EA 37.5 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,276.50	832.25
23 22 23 13-0009 EA 45 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,376.00	889.18
23 22 23 13-0010 EA 60 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,237.51	929.84

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0011 EA 75 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	5,310.85	970.51
23 22 23 13-0012 30 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0013 EA 3 To 6 GPM Simplex Condensate Pump And 1/2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	2,242.58	737.37
23 22 23 13-0014 EA 9 To 12 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	2,789.53	756.34
23 22 23 13-0015 EA 15 GPM Simplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	2,909.66	806.50
23 22 23 13-0016 EA 22.5 GPM Simplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	3,326.18	871.55
23 22 23 13-0017 EA 30 To 37.5 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,376.00	890.53
23 22 23 13-0018 EA 45 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,501.31	921.71
23 22 23 13-0019 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,651.83	970.51
23 22 23 13-0020 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,336.42	1,032.86
23 22 23 13-0021 40 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0022 EA 3 To 6 GPM Simplex Condensate Pump And 1 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	2,514.44	845.80
23 22 23 13-0023 EA 9 To 15 GPM Simplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	3,047.14	913.57
23 22 23 13-0024 EA 22.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	3,498.96	902.74
23 22 23 13-0025 EA 30 To 37.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,482.32	921.71
23 22 23 13-0026 EA 45 GPM Simplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,590.80	961.02
23 22 23 13-0027 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,310.85	970.51
23 22 23 13-0028 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,417.14	1,032.86
23 22 23 13-0029 50 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0030 EA 3 To 6 GPM Simplex Condensate Pump And 2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	4,299.87	916.29
23 22 23 13-0031 EA 9 To 15 GPM Simplex Condensate Pump And 2 HP Motor With 13.6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	3,290.41	935.27
23 22 23 13-0032 EA 22.5 GPM Simplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	3,695.76	942.04
23 22 23 13-0033 EA 30 To 45 GPM Simplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	4,696.12	1,024.72
23 22 23 13-0034 EA 60 To 75 GPM Simplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	7,077.21	1,104.70
23 22 23 13-0035 Duplex Condensate Pumps And Motors (23 22 23 13)		
Note: Cast iron receiver, float switch, alternator assembly.		
23 22 23 13-0036 20 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0037 EA 9 To 12 GPM Duplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,135.92	925.78
23 22 23 13-0038 EA 15 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,345.94	1,016.59
23 22 23 13-0039 EA 22.5 GPM Duplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,600.28	1,024.72
23 22 23 13-0040 EA 30 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,004.84	1,116.89
23 22 23 13-0041 EA 37.5 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	5,295.34	1,116.89
23 22 23 13-0042 EA 45 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	5,439.16	1,203.65
23 22 23 13-0043 EA 60 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	6,333.34	1,256.51
23 22 23 13-0044 EA 75 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	6,510.84	1,318.86
23 22 23 13-0045 30 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0046 EA 9 To 12 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	3,931.86	997.61
23 22 23 13-0047 EA 15 GPM Duplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,146.90	1,089.78
23 22 23 13-0048 EA 22.5 GPM Duplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,575.46	1,062.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0049 EA 30 To 37.5 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,439.16	1,203.65
23 22 23 13-0050 EA 45 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,600.96	1,248.37
23 22 23 13-0051 EA 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,320.92	1,318.86
23 22 23 13-0052 EA 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,653.17	1,413.74
23 22 23 13-0053 40 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0054 EA 9 To 15 GPM Duplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,328.71	1,176.54
23 22 23 13-0055 EA 22.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,735.34	1,229.40
23 22 23 13-0056 EA 30 To 37.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,612.35	1,248.37
23 22 23 13-0057 EA 45 GPM Duplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,790.80	1,310.73
23 22 23 13-0058 EA 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	6,511.79	1,318.86
23 22 23 13-0059 EA 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	6,675.96	1,413.74
23 22 23 13-0060 50 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0061 EA 9 To 15 GPM Duplex Condensate Pump And 2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	4,486.34	1,176.54
23 22 23 13-0062 EA 22.5 GPM Duplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	4,856.82	1,293.10
23 22 23 13-0063 EA 30 To 45 GPM Duplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	5,955.90	1,404.25
23 22 23 13-0064 EA 60 To 75 GPM Duplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	9,754.83	1,520.82
23 23 Refrigerant Piping (23 20)		
23 23 13 Refrigerant Piping Valves (23 23)		
23 23 13 00-0001 Ball Valves (23 23 13)		
23 23 13 00-0002 Refrigeration Ball Valves, Sweat, 1400 Series (23 23 13 00-0001)		
23 23 13 00-0003 EA 3/8" Refrigeration Ball Valve, Sweated	55.34	14.72
23 23 13 00-0004 EA 1/2" Refrigeration Ball Valve, Sweated	57.72	14.72
23 23 13 00-0005 EA 5/8" Refrigeration Ball Valve, Sweated	72.70	14.72
23 23 13 00-0006 EA 7/8" Refrigeration Ball Valve, Sweated	97.45	16.19
23 23 13 00-0007 EA 1-1/8" Refrigeration Ball Valve, Sweated	132.96	18.40
23 23 13 00-0008 EA 1-5/8" Refrigeration Ball Valve, Sweated	212.76	22.66
23 23 13 00-0009 Shut-Off Valves (23 23 13)		
23 23 13 00-0010 Packless (23 23 13 00-0009)		
23 23 13 00-0011 EA 1/2" Refrigeration Valve, Packless	65.16	15.31
23 23 13 00-0012 EA 5/8" Refrigeration Valve, Packless	80.05	16.79
23 23 13 00-0013 EA 7/8" Refrigeration Valve, Packless	157.50	22.96
23 23 13 00-0014 Packed (23 23 13 00-0009)		
23 23 13 00-0015 EA 1-1/8" Refrigeration Valve, Packed	275.50	33.42
23 23 13 00-0016 EA 1 3/8" Refrigeration Valve, Packed	366.08	40.92
23 23 13 00-0017 EA 1-5/8" Refrigeration Valve, Packed	443.71	46.07
23 23 13 00-0018 EA 2-1/8" Refrigeration Valve, Packed	626.29	52.55
23 23 13 00-0019 EA 2-5/8" Refrigeration Valve, Packed	1,074.23	147.21
23 23 13 00-0020 EA 3-1/8" Refrigeration Valve, Packed	1,404.27	184.01
23 23 13 00-0021 EA 4-1/8" Refrigeration Valve, Packed	1,987.35	245.40
23 23 13 00-0022 Check Valves (23 23 13)		
23 23 13 00-0023 EA 5/8" Check Valve, Refrigeration	84.92	14.72
23 23 13 00-0024 EA 7/8" Check Valve, Refrigeration	242.94	16.19
23 23 13 00-0025 EA 1-1/8" Check Valve, Refrigeration	282.71	18.40
23 23 13 00-0026 EA 1 3/8" Check Valve, Refrigeration	378.92	19.58
23 23 13 00-0027 EA 1-5/8" Check Valve, Refrigeration	494.19	22.67
23 23 13 00-0028 EA 2-1/8" Check Valve, Refrigeration	722.81	26.79
23 23 13 00-0029 EA 2-5/8" Check Valve, Refrigeration	1,012.88	39.30
23 23 13 00-0030 EA 3-1/8" Check Valve, Refrigeration	1,330.50	51.52
23 23 13 00-0031 Solenoid Valves (23 23 13)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 23 13 00-0032 Solenoid Valve, 24 Volt Coil <small>(23 23 13 00-0031)</small>			
23 23 13 00-0033	EA	1/2" Solenoid Valve, Refrigeration	222.69 14.72
23 23 13 00-0034	EA	5/8" Solenoid Valve, Refrigeration	227.78 14.72
23 23 13 00-0035	EA	3/4" Solenoid Valve, Refrigeration	282.82 16.19
23 23 13 00-0036	EA	7/8" Solenoid Valve, Refrigeration	282.82 16.19
23 23 13 00-0037	EA	1-1/8" Solenoid Valve, Refrigeration	393.20 18.40
23 23 13 00-0038	EA	1 3/8" Solenoid Valve, Refrigeration	625.17 19.58
23 23 13 00-0039	EA	1-5/8" Solenoid Valve, Refrigeration	1,135.48 22.67
23 23 13 00-0040	EA	2-1/8" Solenoid Valve, Refrigeration	1,156.06 26.79

23 23 16 Refrigerant Piping Specialties (23 23)

23 23 16 00-0001 Soft Refrigeration Copper Tubing <small>(23 23 16)</small>			
Note: Based on outside diameter. Nitrogenized. Lengths up to 100'. See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).			
23 23 16 00-0002	LF	1/8" Outside Diameter Soft Refrigeration Copper Tubing	6.02 3.50
23 23 16 00-0003	LF	3/16" Outside Diameter Soft Refrigeration Copper Tubing	6.29 3.59
23 23 16 00-0004	LF	1/4" Outside Diameter Soft Refrigeration Copper Tubing	6.56 3.69
23 23 16 00-0005	LF	5/16" Outside Diameter Soft Refrigeration Copper Tubing	6.98 3.75
23 23 16 00-0006	LF	3/8" Outside Diameter Soft Refrigeration Copper Tubing	7.18 3.81
23 23 16 00-0007	LF	1/2" Outside Diameter Soft Refrigeration Copper Tubing	8.01 4.00
23 23 16 00-0008	LF	5/8" Outside Diameter Soft Refrigeration Copper Tubing	8.72 4.05
23 23 16 00-0009	LF	3/4" Outside Diameter Soft Refrigeration Copper Tubing	9.49 4.19
23 23 16 00-0010	LF	7/8" Outside Diameter Soft Refrigeration Copper Tubing	12.13 4.92
23 23 16 00-0011	LF	1-1/8" Outside Diameter Soft Refrigeration Copper Tubing	15.28 5.64
23 23 16 00-0012	LF	1-3/8" Outside Diameter Soft Refrigeration Copper Tubing	21.74 6.67
23 23 16 00-0013	LF	1-5/8" Outside Diameter Soft Refrigeration Copper Tubing	26.08 7.46

23 23 16 00-0014 Type L Drawn, ACR Copper Tubing <small>(23 23 16)</small>			
Note: Nitrogenized. Lengths up to 20'. See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).			
23 23 16 00-0015	LF	3/8" Outside Diameter Type L Drawn, ACR Copper Tubing	7.93 4.12
		<i>For Medical Applications "Oxygen Clean", Add</i>	0.71
23 23 16 00-0016	LF	1/2" Outside Diameter Type L Drawn, ACR Copper Tubing	8.79 4.12
		<i>For Medical Applications "Oxygen Clean", Add</i>	0.75
23 23 16 00-0017	LF	5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	9.34 4.12
		<i>For Medical Applications "Oxygen Clean", Add</i>	0.78
23 23 16 00-0018	LF	3/4" Outside Diameter Type L Drawn, ACR Copper Tubing	13.50 6.19
		<i>For Medical Applications "Oxygen Clean", Add</i>	1.14
23 23 16 00-0019	LF	7/8" Outside Diameter Type L Drawn, ACR Copper Tubing	14.73 6.63
		<i>For Medical Applications "Oxygen Clean", Add</i>	1.23
23 23 16 00-0020	LF	1-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	16.89 6.63
		<i>For Medical Applications "Oxygen Clean", Add</i>	1.34
23 23 16 00-0021	LF	1-3/8" Outside Diameter Type L Drawn, ACR Copper Tubing	20.90 7.65
		<i>For Medical Applications "Oxygen Clean", Add</i>	1.63
23 23 16 00-0022	LF	1-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	25.18 8.83
		<i>For Medical Applications "Oxygen Clean", Add</i>	1.92
23 23 16 00-0023	LF	2-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	35.28 11.04
		<i>For Medical Applications "Oxygen Clean", Add</i>	2.59
23 23 16 00-0024	LF	2-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	52.96 16.63
		<i>For Medical Applications "Oxygen Clean", Add</i>	3.90
23 23 16 00-0025	LF	3-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	68.29 20.61
		<i>For Medical Applications "Oxygen Clean", Add</i>	4.96
23 23 16 00-0026	LF	3-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	85.58 24.43
		<i>For Medical Applications "Oxygen Clean", Add</i>	6.12
23 23 16 00-0027	LF	4-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	105.60 29.44
		<i>For Medical Applications "Oxygen Clean", Add</i>	7.49

23 23 16 00-0028 Refrigeration Fittings <small>(23 23 16)</small>			
23 23 16 00-0029 Brass Flare Fittings <small>(23 23 16 00-0028)</small>			
23 23 16 00-0030 Brass Flare Unions <small>(23 23 16 00-0029)</small>			
23 23 16 00-0031	EA	3/8" Brass Flare Union	31.55 15.90
23 23 16 00-0032	EA	1/2" Brass Flare Union	31.55 15.90
23 23 16 00-0033	EA	5/8" Brass Flare Union	33.56 15.90

23 23 16 00-0034 90 Degree Elbow Brass Flare Unions <small>(23 23 16 00-0029)</small>			
23 23 16 00-0035	EA	3/8" 90 Degree Brass Flare Elbow Union	32.77 15.90
23 23 16 00-0036	EA	1/2" 90 Degree Brass Flare Elbow Union	32.77 15.90
23 23 16 00-0037	EA	5/8" 90 Degree Brass Flare Elbow Union	39.50 15.90

23 23 16 00-0038 Brass Flare Tees <small>(23 23 16 00-0029)</small>			
23 23 16 00-0039	EA	3/8" Brass Flare Tee	51.23 26.49
23 23 16 00-0040	EA	1/2" Brass Flare Tee	54.24 26.49
23 23 16 00-0041	EA	5/8" Brass Flare Tee	70.57 26.49



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0042				Male Connector, Half Brass Flare Unions (23 23 16 00-0029)		
	23 23 16 00-0043	EA		3/8" Brass Flare Male Connector, Half Union	26.03	15.90
	23 23 16 00-0044	EA		1/2" Brass Flare Male Connector, Half Union	28.04	15.90
	23 23 16 00-0045	EA		5/8" Brass Flare Male Connector, Half Union	30.90	15.90
23 23 16 00-0046				Female Connector, Half Brass Flare Unions (23 23 16 00-0029)		
	23 23 16 00-0047	EA		3/8" Brass Flare Female Connector, Half Union	28.61	15.90
	23 23 16 00-0048	EA		1/2" Brass Flare Female Connector, Half Union	31.34	15.90
	23 23 16 00-0049	EA		5/8" Brass Flare Female Connector, Half Union	31.34	15.90
23 23 16 00-0050				Long Forged Nuts (23 23 16 00-0029)		
	23 23 16 00-0051	EA		3/8" Brass Long Forged Nut	27.25	15.90
	23 23 16 00-0052	EA		1/2" Brass Long Forged Nut	28.04	15.90
	23 23 16 00-0053	EA		5/8" Brass Long Forged Nut	36.77	15.90
23 23 16 00-0054				Short Forged Nuts (23 23 16 00-0029)		
	23 23 16 00-0055	EA		3/8" Brass Short Forged Nut	26.11	15.90
	23 23 16 00-0056	EA		1/2" Brass Short Forged Nut	27.93	15.90
	23 23 16 00-0057	EA		5/8" Brass Short Forged Nut	28.30	15.90
23 23 16 00-0058				ACR Wrought Copper Fittings (23 23 16 00-0028)		
				Note: Soldered.		
23 23 16 00-0059				ACR Wrought Copper Coupling (23 23 16 00-0058)		
				Note: C x C		
	23 23 16 00-0060	EA		1/4" ACR Wrought Copper Coupling	25.57	15.90
	23 23 16 00-0061	EA		3/8" ACR Wrought Copper Coupling	25.24	15.90
	23 23 16 00-0062	EA		1/2" ACR Wrought Copper Coupling	25.72	15.90
	23 23 16 00-0063	EA		5/8" ACR Wrought Copper Coupling	26.62	16.63
	23 23 16 00-0064	EA		3/4" ACR Wrought Copper Coupling	37.28	21.93
	23 23 16 00-0065	EA		7/8" ACR Wrought Copper Coupling	37.01	22.52
	23 23 16 00-0066	EA		1-1/8" ACR Wrought Copper Coupling	48.44	27.97
	23 23 16 00-0067	EA		1-3/8" ACR Wrought Copper Coupling	68.91	38.28
	23 23 16 00-0068	EA		1-5/8" ACR Wrought Copper Coupling	82.60	44.90
	23 23 16 00-0069	EA		2-1/8" ACR Wrought Copper Coupling	106.99	54.47
	23 23 16 00-0070	EA		2-5/8" ACR Wrought Copper Coupling	181.21	82.73
	23 23 16 00-0071	EA		3-1/8" ACR Wrought Copper Coupling	241.09	108.79
	23 23 16 00-0072	EA		4-1/8" ACR Wrought Copper Coupling	371.02	129.25
23 23 16 00-0073				ACR Wrought Copper Short Radius 90 Degree Elbows (23 23 16 00-0058)		
				Note: C x C		
	23 23 16 00-0074	EA		1/4" ACR Wrought Copper Short Radius 90 Degree Elbow	29.88	15.90
	23 23 16 00-0075	EA		3/8" ACR Wrought Copper Short Radius 90 Degree Elbow	30.20	15.90
	23 23 16 00-0076	EA		1/2" ACR Wrought Copper Short Radius 90 Degree Elbow	29.88	15.90
	23 23 16 00-0077	EA		5/8" ACR Wrought Copper Short Radius 90 Degree Elbow	32.22	16.63
	23 23 16 00-0078	EA		3/4" ACR Wrought Copper Short Radius 90 Degree Elbow	46.09	21.93
	23 23 16 00-0079	EA		7/8" ACR Wrought Copper Short Radius 90 Degree Elbow	46.77	22.52
	23 23 16 00-0080	EA		1-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	59.34	27.97
	23 23 16 00-0081	EA		1-3/8" ACR Wrought Copper Short Radius 90 Degree Elbow	75.20	38.28
	23 23 16 00-0082	EA		1-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow	95.12	44.90
	23 23 16 00-0083	EA		2-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	132.14	54.47
	23 23 16 00-0084	EA		2-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow	225.18	82.73
	23 23 16 00-0085	EA		3-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	290.29	108.79
	23 23 16 00-0086	EA		4-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	519.18	129.25
23 23 16 00-0087				ACR Wrought Copper Long Radius 90 Degree Elbows (23 23 16 00-0058)		
				Note: C x C		
	23 23 16 00-0088	EA		1/4" ACR Wrought Copper Long Radius 90 Degree Elbow	35.27	15.90
	23 23 16 00-0089	EA		3/8" ACR Wrought Copper Long Radius 90 Degree Elbow	32.42	15.90
	23 23 16 00-0090	EA		1/2" ACR Wrought Copper Long Radius 90 Degree Elbow	34.68	15.90
	23 23 16 00-0091	EA		5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	34.82	16.63
	23 23 16 00-0092	EA		3/4" ACR Wrought Copper Long Radius 90 Degree Elbow	42.91	21.93
	23 23 16 00-0093	EA		7/8" ACR Wrought Copper Long Radius 90 Degree Elbow	46.43	22.52
	23 23 16 00-0094	EA		1-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	62.33	27.97
	23 23 16 00-0095	EA		1-3/8" ACR Wrought Copper Long Radius 90 Degree Elbow	90.58	38.28
	23 23 16 00-0096	EA		1-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	111.91	44.90
	23 23 16 00-0097	EA		2-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	198.75	54.47
	23 23 16 00-0098	EA		2-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	309.48	82.73
	23 23 16 00-0099	EA		3-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	408.75	108.79
	23 23 16 00-100	EA		4-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	851.69	129.25

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0101 ACR Wrought Copper 45 Degree Elbow <small>(23 23 16 00-0058)</small> Note: C x C		
23 23 16 00-0102 EA 1/4" ACR Wrought Copper 45 Degree Elbow	39.19	15.90
23 23 16 00-0103 EA 3/8" ACR Wrought Copper 45 Degree Elbow	35.27	15.90
23 23 16 00-0104 EA 1/2" ACR Wrought Copper 45 Degree Elbow	33.60	15.90
23 23 16 00-0105 EA 5/8" ACR Wrought Copper 45 Degree Elbow	28.97	16.63
23 23 16 00-0106 EA 3/4" ACR Wrought Copper 45 Degree Elbow	50.26	21.93
23 23 16 00-0107 EA 7/8" ACR Wrought Copper 45 Degree Elbow	40.66	22.52
23 23 16 00-0108 EA 1-1/8" ACR Wrought Copper 45 Degree Elbow	59.30	27.97
23 23 16 00-0109 EA 1-3/8" ACR Wrought Copper 45 Degree Elbow	80.73	38.28
23 23 16 00-0110 EA 1-5/8" ACR Wrought Copper 45 Degree Elbow	95.48	44.90
23 23 16 00-0111 EA 2-1/8" ACR Wrought Copper 45 Degree Elbow	128.49	54.47
23 23 16 00-0112 EA 2-5/8" ACR Wrought Copper 45 Degree Elbow	223.95	82.73
23 23 16 00-0113 EA 3-1/8" ACR Wrought Copper 45 Degree Elbow	302.63	108.79
23 23 16 00-0114 EA 4-1/8" ACR Wrought Copper 45 Degree Elbow	490.95	129.25
23 23 16 00-0115 ACR Wrought Copper Tee <small>(23 23 16 00-0058)</small> Note: C x C x C		
23 23 16 00-0116 EA 1/4" ACR Wrought Copper Tee	52.00	26.49
23 23 16 00-0117 EA 3/8" ACR Wrought Copper Tee	52.69	26.49
23 23 16 00-0118 EA 1/2" ACR Wrought Copper Tee	50.14	26.49
23 23 16 00-0119 EA 5/8" ACR Wrought Copper Tee	53.66	33.42
23 23 16 00-0120 EA 3/4" ACR Wrought Copper Tee	73.72	33.42
23 23 16 00-0121 EA 7/8" ACR Wrought Copper Tee	59.65	33.85
23 23 16 00-0122 EA 1-1/8" ACR Wrought Copper Tee	94.86	44.90
23 23 16 00-0123 EA 1-3/8" ACR Wrought Copper Tee	118.74	54.47
23 23 16 00-0124 EA 1-5/8" ACR Wrought Copper Tee	154.18	64.63
23 23 16 00-0125 EA 2-1/8" ACR Wrought Copper Tee	218.53	86.12
23 23 16 00-0126 EA 2-5/8" ACR Wrought Copper Tee	462.14	187.98
23 23 16 00-0127 EA 3-1/8" ACR Wrought Copper Tee	568.72	206.68
23 23 16 00-0128 EA 4-1/8" ACR Wrought Copper Tee	970.73	229.64
23 23 16 00-0129 ACR Wrought Copper Male Adapter <small>(23 23 16 00-0058)</small> Note: C x M		
23 23 16 00-0130 EA 1/4" ACR Wrought Copper Male Adapter	43.08	15.90
23 23 16 00-0131 EA 3/8" ACR Wrought Copper Male Adapter	49.35	15.90
23 23 16 00-0132 EA 1/2" ACR Wrought Copper Male Adapter	38.94	15.90
23 23 16 00-0133 ACR Wrought Copper Female Adapter <small>(23 23 16 00-0058)</small> Note: C x F		
23 23 16 00-0134 EA 1/4" ACR Wrought Copper Female Adapter	40.62	15.90
23 23 16 00-0135 EA 3/8" ACR Wrought Copper Female Adapter	37.03	15.90
23 23 16 00-0136 EA 1/2" ACR Wrought Copper Female Adapter	38.39	15.90
23 23 16 00-0137 ACR Wrought Copper Cap <small>(23 23 16 00-0058)</small> Note: C		
23 23 16 00-0138 EA 1/4" ACR Wrought Copper Cap	18.85	10.60
23 23 16 00-0139 EA 3/8" ACR Wrought Copper Cap	17.71	10.60
23 23 16 00-0140 EA 1/2" ACR Wrought Copper Cap	18.82	10.60
23 23 16 00-0141 ACR Wrought Copper P-Trap <small>(23 23 16 00-0058)</small>		
23 23 16 00-0142 EA 5/8" ACR Wrought Copper P-Trap	115.30	13.55
23 23 16 00-0143 EA 3/4" ACR Wrought Copper P-Trap	155.97	14.91
23 23 16 00-0144 EA 7/8" ACR Wrought Copper P-Trap	136.99	14.91
23 23 16 00-0145 EA 1-1/8" ACR Wrought Copper P-Trap	185.39	16.26
23 23 16 00-0146 EA 1-3/8" ACR Wrought Copper P-Trap	321.34	16.26
23 23 16 00-0147 EA 1-5/8" ACR Wrought Copper P-Trap	451.40	17.62
23 23 16 00-0148 EA 2-1/8" ACR Wrought Copper P-Trap	809.42	18.98
23 23 16 00-0149 Sight Glass With Moisture And Liquid Indicator, Solder Connection <small>(23 23 16)</small>		
23 23 16 00-0150 EA 1/4" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	67.78	20.34
23 23 16 00-0151 EA 3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	81.99	24.40
23 23 16 00-0152 EA 1/2" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	98.70	29.82
23 23 16 00-0153 EA 5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	109.13	33.89
23 23 16 00-0154 EA 7/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	145.81	43.38
23 23 16 00-0155 EA 1-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	169.95	52.87
23 23 16 00-0156 EA 1-3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	254.49	62.36
23 23 16 00-0157 EA 1-5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	317.44	85.40
23 23 16 00-0158 EA 2-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	390.50	105.72
23 23 16 00-0159 Filter Driers, Solder Connections <small>(23 23 16)</small>		
23 23 16 00-0160 Replaceable Core Type Filter Driers, Solder Connections <small>(23 23 16 00-0159)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0161 EA 5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	553.60	12.20
23 23 16 00-0162 EA 7/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	566.71	14.91
23 23 16 00-0163 EA 1-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	726.05	14.91
23 23 16 00-0164 EA 1-3/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	733.36	16.26
23 23 16 00-0165 EA 1-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	825.06	17.62
23 23 16 00-0166 EA 2-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	943.99	18.98
23 23 16 00-0167 EA 2-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	1,106.12	20.34
23 23 16 00-0168 EA 3-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	1,381.09	20.34
23 23 16 00-0169 Sealed In-Line Filter Driers, Solder Connections <small>(23 23 16 00-0159)</small>		
23 23 16 00-0170 EA 1/4" Outside Diameter, 1/4 To 1 Ton, Sealed In-Line Filter Drier, Solder Connections.....	103.95	12.20
23 23 16 00-0171 EA 3/8" Outside Diameter, 1/2 To 2 Ton, Sealed In-Line Filter Drier, Solder Connections	132.86	12.20
23 23 16 00-0172 EA 1/2" Outside Diameter, 1 To 7 Ton, Sealed In-Line Filter Drier, Solder Connections	168.94	13.55
23 23 16 00-0173 EA 1/2" Outside Diameter, 2 To 7-1/2 Ton, Sealed In-Line Filter Drier, Solder Connections	194.16	13.55
23 23 16 00-0174 EA 5/8" Outside Diameter, 2 To 10 Ton, Sealed In-Line Filter Drier, Solder Connections.....	214.38	13.55
23 23 16 00-0175 EA 5/8" Outside Diameter, 4 To 8 Ton, Sealed In-Line Filter Drier, Solder Connections	241.69	13.55
23 23 16 00-0176 EA 7/8" Outside Diameter, 5 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections.....	272.68	14.91
23 23 16 00-0177 EA 7/8" Outside Diameter, 7-1/2 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections	380.92	14.91
23 23 16 00-0178 EA 1-1/8" Outside Diameter, 15 To 25 Ton, Sealed In-Line Filter Drier, Solder Connections	417.97	14.91
23 23 16 00-0179 Bi-Flow Filter Driers, Solder Connections <small>(23 23 16 00-0159)</small>		
23 23 16 00-0180 EA 1/4" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	137.83	12.20
23 23 16 00-0181 EA 3/8" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	156.98	12.20
23 23 16 00-0182 EA 1/2" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	188.67	13.55
23 23 16 00-0183 EA 3/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	166.55	12.20
23 23 16 00-0184 EA 1/2" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections	208.41	13.55
23 23 16 00-0185 EA 5/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	245.08	13.55
23 23 16 00-0186 Refrigerant Compressor Discharge Mufflers <small>(23 23 16)</small>		
23 23 16 00-0187 EA 3/8" Outside Diameter, 2 Ton, Refrigerant Compressor Discharge Muffler	128.39	12.20
23 23 16 00-0188 EA 1/2" Outside Diameter, 3 Ton, Refrigerant Compressor Discharge Muffler	141.91	12.20
23 23 16 00-0189 EA 5/8" Outside Diameter, 5 Ton, Refrigerant Compressor Discharge Muffler	170.49	12.20
23 23 16 00-0190 EA 7/8" Outside Diameter, 7-1/2 To 10 Ton, Refrigerant Compressor Discharge Muffler	229.51	14.91
23 23 16 00-0191 EA 1-1/8" Outside Diameter, 10 To 15 Ton, Refrigerant Compressor Discharge Muffler	300.59	14.91
23 23 16 00-0192 EA 1-3/8" Outside Diameter, 15 To 25 Ton, Refrigerant Compressor Discharge Muffler	357.74	16.26
23 23 16 00-0193 EA 1-5/8" Outside Diameter, 25 To 50 Ton, Refrigerant Compressor Discharge Muffler	452.29	17.62
23 23 16 00-0194 EA 2-1/8" Outside Diameter, 50 To 75 Ton, Refrigerant Compressor Discharge Muffler	794.16	18.98
23 23 16 00-0195 EA 2-5/8" Outside Diameter, 75 To 100 Ton, Refrigerant Compressor Discharge Muffler	896.16	20.34
23 23 16 00-0196 EA 3-1/8" Outside Diameter, 100 To 125 Ton, Refrigerant Compressor Discharge Muffler	1,110.59	20.34
23 23 16 00-0197 Expansion Valves And Vibration Absorbers <small>(23 23 16)</small>		
23 23 16 00-0198 Thermostatic Expansion Valves <small>(23 23 16 00-0197)</small>		
Note: Outside diameter pipe sizes. Sporlan TP-S.		
23 23 16 00-0199 EA 3/8" In x 5/8" Out, 1/2 To 3 Ton, Thermostatic Expansion Valve	257.08	12.20
23 23 16 00-0200 EA 1/2" In x 7/8" Out, 4 To 5 Ton, Thermostatic Expansion Valve	357.51	13.55
23 23 16 00-0201 EA 5/8" In x 7/8" Out, 6 To 8 Ton, Thermostatic Expansion Valve	594.59	13.55
23 23 16 00-0202 EA 7/8" In x 1-1/8" Out, 7 To 12 Ton, Thermostatic Expansion Valve	705.55	14.91
23 23 16 00-0203 EA 7/8" In x 1-3/8" Out, 15 To 20 Ton, Thermostatic Expansion Valve	773.33	14.91
23 23 16 00-0204 Electric Expansion Valves <small>(23 23 16 00-0197)</small>		
Note: Sporlan SEI or SEH.		
23 23 16 00-0205 EA 1/2 To 11 Ton Electric Expansion Valve	608.94	16.94
Note: Sporlan SEI.		
23 23 16 00-0206 EA 25 Ton Electric Expansion Valve	701.92	17.62
Note: Sporlan SEI.		
23 23 16 00-0207 EA 50 Ton Electric Expansion Valve	795.39	18.30
Note: Sporlan SEI.		
23 23 16 00-0208 EA 100 Ton Electric Expansion Valve	940.74	18.30
Note: Sporlan SEH.		
23 23 16 00-0209 EA 175 Ton Electric Expansion Valve	1,057.42	18.98
Note: Sporlan SEH.		
23 23 16 00-0210 Braided Stainless Steel Over Copper Vibration Absorber <small>(23 23 16 00-0197)</small>		
23 23 16 00-0211 EA 1/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	68.48	17.62
23 23 16 00-0212 EA 3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	70.77	20.34
23 23 16 00-0213 EA 1/2" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	91.10	25.75
23 23 16 00-0214 EA 5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	99.38	31.17
23 23 16 00-0215 EA 3/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	117.67	37.95
23 23 16 00-0216 EA 7/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	135.64	43.38
23 23 16 00-0217 EA 1-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	193.29	16.26
23 23 16 00-0218 EA 1-3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	267.31	17.62
23 23 16 00-0219 EA 1-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	330.40	17.62
23 23 16 00-0220 EA 2-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	443.71	18.98
23 23 16 00-0221 EA 2-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	743.43	20.34

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0222 EA 3-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	970.68	20.34
23 23 16 00-0223 Accumulator, Refrigerant Suction Line (23 23 16)		
23 23 16 00-0224 EA 3/4" Accumulator, Refrigeration Suction Line.....	221.41	61.67
23 23 16 00-0225 EA 7/8" Accumulator, Refrigeration Suction Line.....	300.58	84.71
23 23 16 00-0226 EA 1-1/8" Accumulator, Refrigeration Suction Line.....	363.18	112.91
23 23 16 00-0227 EA 1 3/8" Accumulator, Refrigeration Suction Line.....	502.36	135.55
23 23 16 00-0228 EA 1-5/8" Accumulator, Refrigeration Suction Line.....	685.50	169.43
23 23 16 00-0229 EA 2-1/8" Accumulator, Refrigeration Suction Line.....	1,029.87	225.96
23 23 16 00-0230 Special Chemicals/Component (23 23 16)		
23 23 16 00-0231 GAL Special Chemical, Inhibited Propylene Glycol, 100%.....	40.54	
23 23 16 00-0232 GAL Removal And Storage For Reuse Of Inhibited Propylene Glycol.....	10.51	
23 23 16 00-0233 GAL Special Chemical, Inhibited Ethylene Glycol, 100%.....	27.81	
23 23 16 00-0234 EA Internal Coil/Refrigerant Piping Flush.....	366.58	
Note: Up to 10 ton AC system.		
23 23 23 Refrigerants (23 23)		
23 23 23 00-0001 Refrigerant (23 23 23)		
23 23 23 00-0002 LB R-113 Refrigerant.....	26.76	
23 23 23 00-0003 LB R-123 Refrigerant.....	19.63	
23 23 23 00-0004 LB R-134A Refrigerant.....	7.00	
23 23 23 00-0005 LB R-404A Refrigerant.....	12.52	
23 23 23 00-0006 LB R-407C Refrigerant.....	12.38	
23 23 23 00-0007 LB R-408A Refrigerant.....	28.23	
23 23 23 00-0008 LB R-410A Refrigerant.....	12.14	
23 23 23 00-0009 LB R-500 Refrigerant.....	23.99	
23 23 23 00-0010 LB R-507 Refrigerant.....	7.72	
23 25 HVAC Water Treatment (23 20)		
23 25 13 Water Treatment for Closed-Loop Hydronic Systems (23 25)		
23 25 13 00-0001 Polyethylene Chemical Storage Tanks (23 25 13)		
23 25 13 00-0002 EA 15 Gallon Chemical Storage Tank, Polyethylene.....	466.20	113.20
23 25 13 00-0003 Gas Chlorinator (23 25 13)		
23 25 13 00-0004 EA Gas Chlorinator, Wall Or Cylinder Mounted (10 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,380.25 564.02	515.06
<i>For Booster Pump, Add</i>		
23 25 13 00-0005 EA Gas Chlorinator, Wall Or Cylinder Mounted (25 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,577.12 644.75	588.64
<i>For Booster Pump, Add</i>		
23 25 13 00-0006 EA Gas Chlorinator, Wall Or Cylinder Mounted (50 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	2,110.94 777.15	445.90
<i>For Booster Pump, Add</i>		
23 25 13 00-0007 Bypass Shot Feeders (23 25 13)		
Note: Includes up to 4 ports (in, out, fill and drain). Excludes valves.		
23 25 13 00-0008 In Line Mount, 125 PSIG (23 25 13 00-0007)		
23 25 13 00-0009 EA 1.7 Gallon Bypass Shot Chemical Feeder In Line Mount, 125 PSIG.....	1,308.32	383.59
23 25 13 00-0010 Floor Mount, 175 PSIG (23 25 13 00-0007)		
23 25 13 00-0011 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	1,932.89	577.42
23 25 13 00-0012 EA 12 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	2,550.98	764.48
23 25 13 00-0013 Floor Mount, 150 LB ASME Code (23 25 13 00-0007)		
23 25 13 00-0014 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code.....	1,932.89	577.42
23 25 13 00-0015 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code.....	2,550.98	764.48
23 25 13 00-0016 Floor Mount, 300 LB ASME Code (23 25 13 00-0007)		
23 25 13 00-0017 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code.....	2,317.60	577.42
23 25 13 00-0018 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code.....	2,950.45	764.48



Heating, Ventilating, and Air-Conditioning (HVAC)		23	23
HVAC Piping and Pumps		23 20	
HVAC Water Treatment		23 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 23

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 25 HVAC Water Treatment



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation and Maintenance of Medium-Voltage Electrical

Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001 Retrofit Distribution Enclosures ^(26 01 10 91)

Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.

26 01 10 91-0002	EA	2"	Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C)	544.09	
			Note: 2mm thick, aluminum frame, hinged cover.		
			<i>For Up To 20, Add</i>	113.34	
			<i>For >20 To 50, Add</i>	90.67	
			<i>For >50 To 100, Add</i>	45.34	
26 01 10 91-0003	EA	3"	Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C)	706.59	
			Note: 2mm thick, aluminum frame, hinged cover.		
			<i>For Up To 20, Add</i>	153.97	
			<i>For >20 To 50, Add</i>	123.17	
			<i>For >50 To 100, Add</i>	61.59	
26 01 10 91-0004	EA	4"	Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C)	1,064.08	
			Note: 4mm thick, aluminum frame, hinged cover.		
			<i>For Up To 20, Add</i>	243.34	
			<i>For >20 To 50, Add</i>	194.67	
			<i>For >50 To 100, Add</i>	97.34	
26 01 10 91-0005	EA	3"	Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO)	539.46	
			Note: 2mm thick, aluminum frame, twist cover.		
			<i>For Up To 20, Add</i>	112.18	
			<i>For >20 To 50, Add</i>	89.75	
			<i>For >50 To 100, Add</i>	44.87	
26 01 10 91-0006	EA	2"	Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	542.32	
			Note: 2mm thick, aluminum frame, twist cover.		
			<i>For Up To 20, Add</i>	112.90	
			<i>For >20 To 50, Add</i>	90.32	
			<i>For >50 To 100, Add</i>	45.16	
26 01 10 91-0007	EA	3"	Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	693.36	
			Note: 2mm thick, aluminum frame, twist cover.		
			<i>For Up To 20, Add</i>	150.66	
			<i>For >20 To 50, Add</i>	120.53	
			<i>For >50 To 100, Add</i>	60.26	
26 01 10 91-0008	EA	4"	Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	1,034.70	
			Note: 4mm thick, aluminum frame, twist cover.		
			<i>For Up To 20, Add</i>	235.99	
			<i>For >20 To 50, Add</i>	188.79	
			<i>For >50 To 100, Add</i>	94.40	
26 01 10 91-0009	EA	2"	Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VVPR)	427.10	
			Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
			<i>For Up To 20, Add</i>	84.09	
			<i>For >20 To 50, Add</i>	67.27	
			<i>For >50 To 100, Add</i>	33.64	
26 01 10 91-0010	EA	3"	Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VVPR)	602.59	
			Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
			<i>For Up To 20, Add</i>	127.97	
			<i>For >20 To 50, Add</i>	102.37	
			<i>For >50 To 100, Add</i>	51.19	
26 01 10 91-0011	EA	4"	Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VVPR)	858.52	
			Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
			<i>For Up To 20, Add</i>	191.95	
			<i>For >20 To 50, Add</i>	153.56	
			<i>For >50 To 100, Add</i>	76.78	
26 01 10 91-0012	EA	2"	Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	782.59	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			<i>For Up To 20, Add</i>	172.97	
			<i>For >20 To 50, Add</i>	138.37	
			<i>For >50 To 100, Add</i>	69.19	
26 01 10 91-0013	EA	3"	Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,076.20	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			<i>For Up To 20, Add</i>	246.37	
			<i>For >20 To 50, Add</i>	197.09	
			<i>For >50 To 100, Add</i>	98.55	

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01	10 91-0014	EA	4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	1,972.99	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	470.57	
			For >20 To 50, Add	376.45	
			For >50 To 100, Add	188.23	
26 01	10 91-0015	EA	3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	899.29	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	202.14	
			For >20 To 50, Add	161.71	
			For >50 To 100, Add	80.86	
26 01	10 91-0016	EA	4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	1,324.43	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	308.43	
			For >20 To 50, Add	246.74	
			For >50 To 100, Add	123.37	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001	EA	Lock Out/Tag Out Devices <small>(26 01 20 91)</small> Note: Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.	
26 01 20 91-0002	EA	Lock Out/Tag Out Local Disconnect Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).	53.32
26 01 20 91-0003	EA	Lock Out/Tag Out Breaker Or Motor Starter Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).	53.32
26 01 20 91-0004	EA	Lock Out Padlock Device..... Note: Includes the installation and removal of pad lock when required	14.81
26 01 20 91-0005	EA	Lock Out Tags Note: Includes filling out tag information, installation and removal of identifying tags.	5.27
26 01 20 91-0006	EA	Existing Circuit Tracing <small>(26 01 20 91)</small>	
26 01 20 91-0007	EA	Motors, Diconnects And Other Single Source Devices, Existing Circuit Tracing Per Device.....	30.82
26 01 20 91-0008	EA	Lighting, Existing Circuit Tracing Per Circuit.....	30.82

26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment (26 01)

26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration (26 01 30)

26 01 30 91-0001	EA	Emergency Generator Permits <small>(26 01 30 91)</small>	
26 01 30 91-0002	EA	Air Pollution Control Board <small>(26 01 30 91-0001)</small>	
26 01 30 91-0003	EA	APCD Permit To Construct And Operate Emergency Generator.....	4,719.83

26 01 50 Operation and Maintenance of Lighting (26 01)

26 01 50 51 Luminaire Relamping (26 01 50)

26 01 50 51-0001	EA	Replace Lamps In Existing Fixtures <small>(26 01 50 51)</small> Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.	
26 01 50 51-0002	EA	Halogen Lamps <small>(26 01 50 51-0001)</small>	
26 01 50 51-0003	EA	300 Watt, T3, Tungsten Halogen Lamp	48.21
26 01 50 51-0004	EA	500 Watt, T3, Tungsten Halogen Lamp	60.62
26 01 50 51-0005	EA	1,000 Watt, T3, Tungsten Halogen Lamp	88.34
26 01 50 51-0006	EA	60 Watt, PAR38, Halogen Lamp.....	26.96
26 01 50 51-0007	EA	75 Watt, PAR38, Halogen Lamp.....	26.96
26 01 50 51-0008	EA	90 Watt, PAR38, Halogen Lamp.....	25.86
26 01 50 51-0009	EA	100 Watt, PAR38, Halogen Lamp.....	25.86
26 01 50 51-0010	EA	60 Watt, PAR38, Halogen IR Reflective Lamp.....	43.62
26 01 50 51-0011	EA	67 Watt, PAR38, Halogen IR Reflective Lamp.....	47.91
26 01 50 51-0012	EA	70 Watt, PAR38, Halogen IR Reflective Lamp.....	46.80
26 01 50 51-0013	EA	90 Watt, PAR38, Halogen IR Reflective Lamp.....	50.08
26 01 50 51-0014	EA	100 Watt, PAR38, Halogen IR Reflective Lamp.....	50.77
26 01 50 51-0015	EA	12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10).....	26.70
26 01 50 51-0016	EA	12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20).....	26.70
26 01 50 51-0017	EA	12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25).....	29.17
26 01 50 51-0018	EA	12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36).....	29.17
26 01 50 51-0019	EA	Incandescent Lamps <small>(26 01 50 51-0001)</small>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0020 EA 100 Watt, Frosted, Interior Incandescent Lamp	8.00	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.42	
26 01 50 51-0021 EA 150 Watt, Frosted, Interior Incandescent Lamp	9.39	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.42	
26 01 50 51-0022 EA 200 Watt, Frosted, Interior Incandescent Lamp	10.97	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.42	
26 01 50 51-0023 EA 300 Watt, PS25, Interior Incandescent Lamp	12.95	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.42	
26 01 50 51-0024 EA 60 Watt, G25, Clear, Interior Incandescent Lamp	10.28	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.42	
26 01 50 51-0025 EA 75 Watt, R20, Interior Incandescent Lamp	15.41	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.90	
26 01 50 51-0026 EA 75 Watt, PAR38, Exterior Incandescent Lamp	18.18	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.90	
26 01 50 51-0027 EA 100 Watt, PAR38, Exterior Incandescent Lamp	17.08	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.90	
26 01 50 51-0028 EA 150 Watt, PAR38, Exterior Incandescent Lamp	27.58	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.90	
26 01 50 51-0029 EA 250 Watt, PAR38, Exterior Incandescent Lamp	54.49	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.38	
26 01 50 51-0030 EA 300 Watt, PAR56, Exterior Incandescent Lamp	62.20	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.38	
26 01 50 51-0031 Exit Light Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0032 EA Convert Exit Light Lamps To Red LED Lamps	129.67	
<i>For Green LED Lamps, Add</i>	25.00	
26 01 50 51-0033 EA Fluorescent Lamp For Exit Light	36.24	
<i>For Multiple Lamps In Fixture, Deduct</i>	-9.67	
26 01 50 51-0034 EA Lamp Replacement For Emergency Lights On Exit Sign	39.79	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.83	
26 01 50 51-0035 Fluorescent Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0036 EA 18", 15 Watt, T8 Fluorescent Lamp	14.66	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0037 EA 2', 17 Watt, T8 Fluorescent Lamp	17.21	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0038 EA 3', 25 Watt, T8 Fluorescent Lamp	19.73	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0039 EA 4', 32 Watt, T8 Fluorescent Lamp	18.86	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0040 EA 4', 30 Watt, T8 Fluorescent Lamp	24.13	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0041 EA 4', 28 Watt, T8 Fluorescent Lamp	21.45	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0042 EA 4', 25 Watt, T8 Fluorescent Lamp	21.34	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0043 EA 4', 44 Watt, T8HO Fluorescent Lamp	32.88	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0044 EA 8', 59 Watt, T8 Fluorescent Lamp	25.63	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0045 EA 18", 15 Watt, T12 Fluorescent Lamp	21.09	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0046 EA 2', 20 Watt, T12 Fluorescent Lamp	16.48	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0047 EA 3', 30 Watt, T12 Fluorescent Lamp	18.52	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0048 EA 4', 34 Watt, T12 Fluorescent Lamp	18.60	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0049 EA 4', 40 Watt, T12 Fluorescent Lamp	18.27	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0050 EA 8', 60 Watt, T12 Fluorescent Lamp	26.22	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0051 EA 8', 75 Watt, T12 Fluorescent Lamp	22.52	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0052 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp	33.93	
26 01 50 51-0053 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp	21.32	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0054 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp	17.91	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0055 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp	17.38	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0056 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp	19.01	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0057 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp	30.59	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.83	
26 01 50 51-0058 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp	29.58	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.83	
26 01 50 51-0059 EA 6", 4 Watt, T5 Fluorescent Lamp	16.04	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0060 EA 9", 6 Watt, T5 Fluorescent Lamp	15.81	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0061 EA 12", 8 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	16.25 -3.86	
26 01 50 51-0062 EA 21", 13 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	16.90 -3.86	
26 01 50 51-0063 EA 24", 14 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	19.16 -3.86	
26 01 50 51-0064 EA 34", 21 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	20.92 -4.35	
26 01 50 51-0065 EA 46", 28 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	20.34 -4.35	
26 01 50 51-0066 EA 46", 54 Watt, T5HO Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	22.03 -4.35	
26 01 50 51-0067 EA 46", 54 Watt T5 Fluorescent Lamp	18.67	
26 01 50 51-0068 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	12.34 -2.42	
26 01 50 51-0069 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	13.52 -2.42	
26 01 50 51-0070 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	26.43 -2.42	
26 01 50 51-0071 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux	34.85	
26 01 50 51-0072 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux	34.85	
26 01 50 51-0073 EA 32 Watt 2D (DoubleD) Fluorescent Lamp, 4-Pin	63.10	
26 01 50 51-0074 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp	23.69	
26 01 50 51-0075 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps	12.11	
26 01 50 51-0076 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps	10.73	
26 01 50 51-0077 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps	11.16	
26 01 50 51-0078 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps	39.83	
26 01 50 51-0079 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps	43.27	
26 01 50 51-0080 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps	80.63	
26 01 50 51-0081 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps	96.19	
26 01 50 51-0082 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps	99.36	
26 01 50 51-0083 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps	37.69	
26 01 50 51-0084 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps	39.21	
26 01 50 51-0085 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps	44.91	
26 01 50 51-0086 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0087 EA 50 Watt, Pulse Start Metal Halide Lamp	52.81	
26 01 50 51-0088 EA 70 Watt, Pulse Start Metal Halide Lamp	50.72	
26 01 50 51-0089 EA 100 Watt, Pulse Start Metal Halide Lamp	57.32	
26 01 50 51-0090 EA 150 Watt, Pulse Start Metal Halide Lamp	55.82	
26 01 50 51-0091 EA 175 Watt, Pulse Start Metal Halide Lamp	55.39	
26 01 50 51-0092 EA 250 Watt, Pulse Start Metal Halide Lamp	55.69	
26 01 50 51-0093 EA 400 Watt, Pulse Start Metal Halide Lamp	66.21	
26 01 50 51-0094 EA 1,000 Watt, Pulse Start Metal Halide Lamp	76.30	
26 01 50 51-0095 EA 1,500 Watt, Pulse Start Metal Halide Lamp	75.88	
26 01 50 51-0096 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0097 EA 35 Watt, High Pressure Sodium Lamp <i>For Enclosed And Gasket Light Fixtures, Add</i>	44.30 3.72	
26 01 50 51-0098 EA 50 Watt, High Pressure Sodium Lamp <i>For Enclosed And Gasket Light Fixtures, Add</i>	44.30 3.72	
26 01 50 51-0099 EA 70 Watt, High Pressure Sodium Lamp <i>For Enclosed And Gasket Light Fixtures, Add</i>	45.20 3.72	
26 01 50 51-0100 EA 100 Watt, High Pressure Sodium Lamp <i>For Enclosed And Gasket Light Fixtures, Add</i>	46.92 3.72	
26 01 50 51-0101 EA 150 Watt, High Pressure Sodium Lamp <i>For Enclosed And Gasket Light Fixtures, Add</i>	45.20 3.72	
26 01 50 51-0102 EA 250 Watt, High Pressure Sodium Lamp <i>For Enclosed And Gasket Light Fixtures, Add</i>	45.20 3.72	
26 01 50 51-0103 EA 400 Watt, High Pressure Sodium Lamp <i>For Enclosed And Gasket Light Fixtures, Add</i>	42.65 3.72	
26 01 50 51-0104 EA 1,000 Watt, High Pressure Sodium Lamp	94.16	
26 01 50 51-0105 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0106 EA 35 Watt, Low Pressure Sodium Lamp	106.28	
26 01 50 51-0107 EA 55 Watt, Low Pressure Sodium Lamp	118.12	
26 01 50 51-0108 EA 70 Watt, Low Pressure Sodium Lamp	120.78	
26 01 50 51-0109 EA 90 Watt, Low Pressure Sodium Lamp	123.45	
26 01 50 51-0110 EA 135 Watt, Low Pressure Sodium Lamp	134.11	
26 01 50 51-0111 EA 180 Watt, Low Pressure Sodium Lamp	182.10	
26 01 50 51-0112 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0113 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0112)		
26 01 50 51-0114 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star)	17.56	
26 01 50 51-0115 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0112)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0116	EA			6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	22.79	
26 01 50 51-0117	EA			11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	22.79	
26 01 50 51-0118	EA			14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	36.85	
26 01 50 51-0119	EA			17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	26.34	
26 01 50 51-0120	EA			18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	45.63	
26 01 50 51-0121				LED Lamps, Medium Base, BR30 Or BR40 <small>(26 01 50 51-0112)</small>		
26 01 50 51-0122	EA			9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	31.07	
26 01 50 51-0123	EA			14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	28.10	
26 01 50 51-0124	EA			11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	35.99	
26 01 50 51-0125	EA			14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	30.73	
26 01 50 51-0126	EA			14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	39.50	
26 01 50 51-0127	EA			18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	30.73	
26 01 50 51-0128				LED Lamps, Medium Base, PAR <small>(26 01 50 51-0112)</small>		
26 01 50 51-0129	EA			7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star)	33.88	
26 01 50 51-0130	EA			12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star)	44.79	
26 01 50 51-0131	EA			16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	44.79	
26 01 50 51-0132	EA			15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	43.03	
26 01 50 51-0133	EA			12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	41.27	
26 01 50 51-0134	EA			15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	41.27	
26 01 50 51-0135	EA			18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	76.77	
26 01 50 51-0136	EA			15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	44.79	
26 01 50 51-0137	EA			18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	43.03	
26 01 50 51-0138	EA			19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star)	44.79	
26 01 50 51-0139	EA			24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	44.79	
26 01 50 51-0140				LED Lamps, GU Base, MR16 <small>(26 01 50 51-0112)</small>		
26 01 50 51-0141	EA			4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star)	24.58	
26 01 50 51-0142	EA			6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star)	31.07	
26 01 50 51-0143	EA			8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star)	33.88	
26 01 50 51-0144				LED Lamps, PL Series <small>(26 01 50 51-0112)</small>		
26 01 50 51-0145	EA			3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23)	19.71	
26 01 50 51-0146	EA			26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR)	26.28	
26 01 50 51-0147	EA			26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR)	22.57	
26 01 50 51-0148	EA			26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR)	24.89	
26 01 50 51-0149	EA			26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR)	24.89	
26 01 50 51-0150	EA			26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR)	29.05	
26 01 50 51-0151	EA			13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR)	24.89	
26 01 50 51-0152	EA			13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR)	24.89	
26 01 50 51-0153	EA			13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR)	24.89	
26 01 50 51-0154	EA			13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR)	24.89	
26 01 50 51-0155	EA			26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR)	27.66	
26 01 50 51-0156	EA			26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR)	27.66	
26 01 50 51-0157	EA			26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR)	27.66	
26 01 50 51-0158	EA			26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR)	27.66	
26 01 50 51-0159	EA			26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR)	26.28	
26 01 50 51-0160	EA			13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR)	26.28	
26 01 50 51-0161	EA			13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR)	26.28	
26 01 50 51-0162	EA			13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR)	27.20	
26 01 50 51-0163	EA			13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR)	27.20	
26 01 50 51-0164	EA			26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP)	27.41	
26 01 50 51-0165	EA			26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP)	27.41	
26 01 50 51-0166	EA			26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP)	27.41	
26 01 50 51-0167	EA			26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP)	27.41	
26 01 50 51-0168	EA			13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP)	28.13	
26 01 50 51-0169	EA			13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP)	28.13	
26 01 50 51-0170	EA			13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26)	28.13	
26 01 50 51-0171	EA			13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26)	28.13	
26 01 50 51-0172	EA			13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26)	28.13	
26 01 50 51-0173	EA			13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24)	28.13	
26 01 50 51-0174	EA			13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24)	28.13	
26 01 50 51-0175	EA			13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24)	28.13	
26 01 50 51-0176	EA			26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP)	35.36	
26 01 50 51-0177	EA			26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP)	35.36	
26 01 50 51-0178	EA			26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP)	35.36	
26 01 50 51-0179	EA			26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP)	33.69	
26 01 50 51-0180	EA			13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP)	33.69	
26 01 50 51-0181	EA			13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP)	33.69	
26 01 50 51-0182	EA			4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898)	27.09	
26 01 50 51-0183				HID LED Lamps, Medium Base E26 <small>(26 01 50 51-0112)</small>		
26 01 50 51-0184	EA			27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26)	65.64	
26 01 50 51-0185	EA			27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26)	65.64	

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 50 Operation and Maintenance of Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 01 50 51-0186	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26)	82.76	
26 01 50 51-0187	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26)	82.76	
26 01 50 51-0188	EA	10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026)	58.88	
26 01 50 51-0189	EA	10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026)	58.88	
26 01 50 51-0190	EA	10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026)	58.88	
26 01 50 51-0191	EA	10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026)	58.88	
26 01 50 51-0192	EA	15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	60.73	
26 01 50 51-0193	EA	15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	60.73	
26 01 50 51-0194	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	60.73	
26 01 50 51-0195	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	60.73	
26 01 50 51-0196	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	68.14	
26 01 50 51-0197	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	68.14	
26 01 50 51-0198	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	68.14	
26 01 50 51-0199	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	68.14	
26 01 50 51-0200	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	77.40	
26 01 50 51-0201	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	77.40	
26 01 50 51-0202	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	77.40	
26 01 50 51-0203	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	77.40	
26 01 50 51-0204	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	97.77	
26 01 50 51-0205	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	97.77	
26 01 50 51-0206	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	97.77	
26 01 50 51-0207	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	97.77	
26 01 50 51-0208	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	115.36	
26 01 50 51-0209	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	115.36	
26 01 50 51-0210	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	115.36	
26 01 50 51-0211	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	115.36	
26 01 50 51-0212	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	127.40	
26 01 50 51-0213	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	127.40	
26 01 50 51-0214	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	127.40	
26 01 50 51-0215	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	127.40	
26 01 50 51-0216	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	170.92	
26 01 50 51-0217	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	170.92	
26 01 50 51-0218	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	170.92	
26 01 50 51-0219	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	170.92	
26 01 50 51-0220	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	176.48	
26 01 50 51-0221	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	176.48	
26 01 50 51-0222	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	176.48	
26 01 50 51-0223	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	176.48	
26 01 50 51-0224	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	208.89	
26 01 50 51-0225	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	208.89	
26 01 50 51-0226	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	208.89	
26 01 50 51-0227	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	208.89	
26 01 50 51-0228	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	247.78	
26 01 50 51-0229	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	247.78	
26 01 50 51-0230	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	247.78	
26 01 50 51-0231	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	247.78	
26 01 50 51-0232	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT40KMED-G6)	80.88	
26 01 50 51-0233	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT50KMED-G6)	87.36	
26 01 50 51-0234	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT40KMED-G5)	87.36	
26 01 50 51-0235	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT50KMED-G5)	80.88	
26 01 50 51-0236	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT40KMED-G5)	101.25	
26 01 50 51-0237	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT50KMED-G5)	92.92	
26 01 50 51-0238	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT40KMED-G5)	114.44	
26 01 50 51-0239	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT50KMED-G5)	110.35	
26 01 50 51-0240	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT40KMED-G5)	112.83	
26 01 50 51-0241	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT50KMED-G5)	112.83	
26 01 50 51-0242	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT40KMED-G7)	68.87	
26 01 50 51-0243	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT50KMED-G7)	68.87	
26 01 50 51-0244	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT40KMED-G7)	77.44	
26 01 50 51-0245	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT50KMED-G7)	77.44	
26 01 50 51-0246	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT40KMED-G7)	83.13	
26 01 50 51-0247	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT50KMED-G7)	83.13	
26 01 50 51-0248	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT40KMED-G7)	91.69	
26 01 50 51-0249	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT50KMED-G7)	91.69	
26 01 50 51-0250	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	92.13	
26 01 50 51-0251	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	99.73	
26 01 50 51-0252	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	123.71	
26 01 50 51-0253	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	136.12	
26 01 50 51-0254	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	54.35	
26 01 50 51-0255	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	61.02	
26 01 50 51-0256	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	64.35	
26 01 50 51-0257	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	70.56	
26 01 50 51-0258	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148015-UNV)	84.56	
26 01 50 51-0259	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148020-UNV)	98.81	
26 01 50 51-0260	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148025-UNV)	134.42	
26 01 50 51-0261	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148030-UNV)	141.54	
26 01 50 51-0262	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148035-UNV)	152.94	
26 01 50 51-0263	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148040-UNV)	160.06	
26 01 50 51-0264	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148060-UNV)	229.88	
26 01 50 51-0265	EA	20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	71.66	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 01 50 51-0266	HID LED Lamps, Mogul Base E39 Or EX39 <small>(26 01 50 51-0112)</small>			
	EA	120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39).....	220.34	
	EA	120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39).....	220.34	
	EA	120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39).....	220.34	
	EA	27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39).....	65.64	
	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R).....	65.64	
	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39).....	65.64	
	EA	45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39).....	82.76	
	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R).....	82.76	
	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39).....	82.76	
	EA	80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39).....	152.21	
	EA	80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039).....	170.92	
	EA	80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039).....	170.92	
	EA	80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039).....	170.92	
	EA	80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039).....	170.92	
	EA	100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039).....	176.48	
	EA	100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039).....	176.48	
	EA	100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039).....	176.48	
	EA	100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039).....	176.48	
	EA	120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039).....	208.89	
	EA	120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039).....	208.89	
	EA	120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039).....	208.89	
	EA	120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039).....	208.89	
	EA	150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039).....	247.78	
	EA	150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039).....	247.78	
	EA	150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039).....	247.78	
	EA	150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039).....	247.78	
	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5).....	87.36	
	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5).....	87.36	
	EA	36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5).....	101.25	
	EA	36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5).....	99.98	
	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5).....	111.44	
	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5).....	110.35	
	EA	54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5).....	112.83	
	EA	54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5).....	109.61	
	EA	100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5).....	235.52	
	EA	20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7).....	87.34	
	EA	20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7).....	87.34	
	EA	30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7).....	98.86	
	EA	30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7).....	98.86	
	EA	40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7).....	105.78	
	EA	40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7).....	105.78	
	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7).....	68.76	
	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7).....	68.76	
	EA	36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7).....	77.44	
	EA	36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7).....	77.44	
	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7).....	83.13	
	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7).....	83.13	
	EA	54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7).....	91.69	
	EA	54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7).....	91.69	
	EA	65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39).....	163.81	
	EA	80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39).....	189.18	
	EA	100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39).....	225.29	
	EA	120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39).....	437.96	
	EA	150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39).....	413.67	
	EA	200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39).....	437.96	
	EA	250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39).....	439.85	
	EA	24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A).....	68.33	
	EA	24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A).....	68.33	
	EA	24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A).....	68.33	
	EA	100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50).....	199.54	
	EA	115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D).....	398.45	
	EA	40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K).....	183.61	
	EA	100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K).....	215.61	
	EA	45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Flob Lamp (HYLITE HL-OC-45W-E39-50K).....	97.25	
	EA	40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K).....	280.32	

26 01 50 51-0332	LED Lamps, 2G11 Base <small>(26 01 50 51-0112)</small>			
	EA	19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR).....	48.05	

26 01 50 51-0334	LED Lamps, GX23 Or G23 Base <small>(26 01 50 51-0112)</small>			
	EA	5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4).....	24.49	

26 01 50 51-0336	LED Lamps, G24 Base <small>(26 01 50 51-0112)</small>			
	EA	5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R).....	31.32	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 01 50 51-0338	LED Tubes (Fluorescent Lamp Replacement) <small>(26 01 50 51-0112)</small>		
26 01 50 51-0339	EA 2', 1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	42.87	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0340	EA 2', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	55.12	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0341	EA 3', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	46.16	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.11	
26 01 50 51-0342	EA 4', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	50.46	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0343	EA 4', 2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	55.06	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0344	EA 4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN).....	35.51	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0345	EA 2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN).....	34.04	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0346	EA 2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF).....	31.19	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.86	
26 01 50 51-0347	EA 3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF).....	31.84	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.11	
26 01 50 51-0348	EA 4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF).....	31.98	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	
26 01 50 51-0349	EA 4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF).....	33.06	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.35	

26 01 50 51-0350	Filament LED Lamps <small>(26 01 50 51-0112)</small>		
26 01 50 51-0351	EA 7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827).....	21.74	
26 01 50 51-0352	EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R).....	21.74	
26 01 50 51-0353	EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	20.82	
26 01 50 51-0354	EA 4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	20.82	
26 01 50 51-0355	EA 4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827).....	22.30	
26 01 50 51-0356	EA 4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A).....	22.30	
26 01 50 51-0357	EA 3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827).....	18.97	
26 01 50 51-0358	EA 3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26).....	18.97	
26 01 50 51-0359	EA 3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	19.52	
26 01 50 51-0360	EA 3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A).....	23.60	
26 01 50 51-0361	EA 4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521).....	23.79	

26 01 50 51-0362	Other Lamps <small>(26 01 50 51-0112)</small>		
26 01 50 51-0363	EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1).....	20.67	
26 01 50 51-0364	EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	20.67	
26 01 50 51-0365	EA 11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	20.67	
26 01 50 51-0366	EA 12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	21.60	
26 01 50 51-0367	EA 13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1).....	21.60	
26 01 50 51-0368	EA 8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1).....	21.60	

26 01 50 51-0369	Recycle Hazardous Lamps <small>(26 01 50 51)</small>		
	Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 01 22 23 00-0001 for work over 14' to add appropriate aerial lift.		
26 01 50 51-0370	EA Recycle 2' Length Linear Fluorescent Lamps.....	0.45	
26 01 50 51-0371	EA Recycle 3' Length Linear Fluorescent Lamps.....	0.68	
26 01 50 51-0372	EA Recycle 4' Length Linear Fluorescent Lamps.....	0.90	
26 01 50 51-0373	EA Recycle 6' Length Linear Fluorescent Lamps.....	1.36	
26 01 50 51-0374	EA Recycle 8' Length Linear Fluorescent Lamps.....	1.81	
26 01 50 51-0375	EA Recycle Compact Fluorescent Lamps.....	0.81	
26 01 50 51-0376	EA Recycle U-Shaped Or Circular Fluorescent Lamps.....	0.81	
26 01 50 51-0377	EA Recycle High Intensity Discharge (HID) Lamps.....	2.82	

26 01 50 52 Ballasts Replacement (26 01 50)

26 01 50 52-0001	Owner Supplied Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0002	EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	29.29	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.79	
26 01 50 52-0003	EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	36.60	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.98	
26 01 50 52-0004	EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	42.46	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.74	
26 01 50 52-0005	EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	45.39	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.62	
26 01 50 52-0006	EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	51.24	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0007 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.17 16.25	
26 01 50 52-0008 High Intensity Discharge (HID) Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0009 Magnetic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0008)</small>		
26 01 50 52-0010 Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0011 Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0010)</small>		
26 01 50 52-0012 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.92 15.37	36.60
26 01 50 52-0013 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.18 15.37	36.60
26 01 50 52-0014 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.18 15.37	36.60
26 01 50 52-0015 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.06 15.37	36.60
26 01 50 52-0016 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.06 15.37	36.60
26 01 50 52-0017 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	256.30 15.37	36.60
26 01 50 52-0018 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	256.30 15.37	36.60
26 01 50 52-0019 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	327.86 15.37	36.60
26 01 50 52-0020 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	364.37 15.37	36.60
26 01 50 52-0021 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0010)</small>		
26 01 50 52-0022 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	166.09 15.37	36.60
26 01 50 52-0023 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.61 15.37	36.60
26 01 50 52-0024 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	171.50 15.37	36.60
26 01 50 52-0025 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	200.12 15.37	36.60
26 01 50 52-0026 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	196.03 15.37	36.60
26 01 50 52-0027 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.59 15.37	36.60
26 01 50 52-0028 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.59 15.37	36.60
26 01 50 52-0029 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	266.76 15.37	36.60
26 01 50 52-0030 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	266.76 15.37	36.60
26 01 50 52-0031 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	421.74 15.37	36.60
26 01 50 52-0032 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	421.74 15.37	36.60
26 01 50 52-0033 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0010)</small>		
26 01 50 52-0034 EA Single Mounting Bracket For Core And Coil Type <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.30 4.39	
26 01 50 52-0035 EA Double Mounting Bracket For Core And Coil Type <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.34 6.59	
26 01 50 52-0036 F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0037 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0036)</small>		
26 01 50 52-0038 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	229.82 17.86 15.37	36.60
26 01 50 52-0039 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	241.63 19.04 15.37	36.60
26 01 50 52-0040 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	220.88 16.96 15.37	36.60
26 01 50 52-0041 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	254.98 20.37 15.37	36.60
26 01 50 52-0042 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	350.57 29.93 15.37	36.60

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0043 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0036)</small>		
26 01 50 52-0044 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	274.58	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0045 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	293.00	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0046 Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0047 Metal Halide, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0046)</small>		
26 01 50 52-0048 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	451.10	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0049 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0046)</small>		
26 01 50 52-0050 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	690.84	37.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.55	
26 01 50 52-0051 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	769.34	37.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.55	
26 01 50 52-0052 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	742.18	37.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.55	
26 01 50 52-0053 Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0054 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0053)</small>		
26 01 50 52-0055 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	553.35	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0056 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	626.85	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0057 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	825.07	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0058 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	820.80	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0059 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,146.94	39.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.25	
26 01 50 52-0060 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,146.94	39.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.25	
26 01 50 52-0061 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	791.64	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0062 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	929.79	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0063 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0053)</small>		
26 01 50 52-0064 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,024.78	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0065 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	976.09	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0066 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,252.14	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0067 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,252.14	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0068 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0069 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0068)</small>		
26 01 50 52-0070 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	620.70	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0071 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	669.76	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0072 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	664.93	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0073 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	697.79	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0074 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,104.08	39.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.25	
26 01 50 52-0075 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,355.05	39.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.25	
26 01 50 52-0076 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,030.49	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0077 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	938.98	36.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0078				High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0068)</small>		
26 01 50 52-0079	EA			1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	798.71	36.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0080	EA			1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	860.58	36.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0081	EA			1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,280.70	36.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0082	EA			1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,103.20	36.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0083				Electronic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0083)</small>		
26 01 50 52-0084				Electronic Low Frequency High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0083)</small>		
26 01 50 52-0085	EA			1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	253.35	36.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0086	EA			1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	253.35	36.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0087	EA			1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	284.36	36.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0088	EA			1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	718.95	36.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0089	EA			1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	718.95	36.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0090	EA			1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	718.95	36.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0091	EA			1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	718.95	36.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 52-0092	EA			1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	718.95	36.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.37	
26 01 50 53				Lens and Accessory Replacement <small>(26 01 50)</small>		
26 01 50 53-0001				Lens and Accessory Replacement <small>(26 01 50 53)</small>		
26 01 50 53-0002	EA			Removal And Replacement Of Parabolic Aluminum Louver.....	90.20	
26 01 50 53-0003	EA			Removal And Replacement Of Visor For Fixtures	213.22	
26 01 50 53-0004	EA			Removal And Replacement Of Globe On Pole	229.01	
26 01 50 53-0005	EA			Removal And Replacement Of Lenses For Flat Top Pole Fixtures.....	102.21	
26 01 50 53-0006	EA			Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	35.99	
26 01 50 53-0007	EA			Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	37.02	
26 01 50 53-0008	EA			Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	41.46	
26 01 50 53-0009	EA			Removal And Replacement Of Slide-On Lampholder	16.41	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.44	
26 01 50 53-0010	EA			Removal And Replacement Of Screw Mount Lampholder.....	16.57	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.44	
26 01 50 53-0011	EA			Removal And Replacement Of Medium Bi-Pin Lampholder	17.93	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.44	
26 01 50 53-0012	EA			Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type	20.01	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.44	
26 01 50 53-0013	EA			Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type	21.37	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.44	
26 01 50 53-0014	EA			Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in	17.72	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.44	
26 01 50 53-0015	EA			Removal And Replacement Of Exterior Light Globes.....	59.74	
26 01 50 81				Luminaire Replacement <small>(26 01 50)</small>		
26 01 50 81-0001				Retrofit Lighting Fixtures <small>(26 01 50 81)</small>		
26 01 50 81-0002				LED Lighting Retrofits For Existing Fixtures <small>(26 01 50 81-0001)</small>		
26 01 50 81-0003				LED Lighting Retrofits For Existing Downlight Fixtures (GreenCreative) <small>(26 01 50 81-0002)</small>		
				Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0004	EA			7" Round Downlight, 15 Watt, 2700K CCT, LED Retrofit (GreenCreative 15SMR7DIM/927)	123.18	
26 01 50 81-0005	EA			7" Round Downlight, 15 Watt, 3000K CCT, LED Retrofit (GreenCreative 15SMR7DIM/930)	123.18	
26 01 50 81-0006	EA			7" Round Downlight, 15 Watt, 4000K CCT, LED Retrofit (GreenCreative 15SMR7DIM/940)	123.18	
26 01 50 81-0007	EA			4" Diameter, 8.5 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/827).....	103.27	
26 01 50 81-0008	EA			4" Diameter, 8.5 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/830).....	103.27	
26 01 50 81-0009	EA			4" Diameter, 8.5 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/840).....	103.27	
26 01 50 81-0010	EA			6" Diameter, 11.6 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/827).....	111.66	
26 01 50 81-0011	EA			6" Diameter, 11.6 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/830).....	111.66	
26 01 50 81-0012	EA			6" Diameter, 11.6 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/840).....	111.66	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR
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26 01 50 81-0013		LED Lighting Retrofits For Existing Site Fixtures (Daylight Technology) ^(26 01 50 81-0002)	
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.			
26 01 50 81-0014	EA	2,300 Lumens, 23 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-20w)	346.67
26 01 50 81-0015	EA	3,300 Lumens, 33 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-30w)	359.25
26 01 50 81-0016	EA	4,400 Lumens, 44 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-40w)	371.82
26 01 50 81-0017	EA	5,400 Lumens, 54 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-50w)	387.36
26 01 50 81-0018	EA	6,500 Lumens, 65 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-60w)	424.03
26 01 50 81-0019	EA	7,600 Lumens, 75 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-70w)	439.57
26 01 50 81-0020	EA	8,600 Lumens, 86 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-80w)	474.15
26 01 50 81-0021	EA	9,600 Lumens, 96 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-90w)	486.72
26 01 50 81-0022	EA	10,700 Lumens, 107 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-100w)	502.27
26 01 50 81-0023	EA	11,700 Lumens, 117 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-110w)	525.32
26 01 50 81-0024	EA	12,800 Lumens, 128 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-120w)	550.29
26 01 50 81-0025	EA	13,800 Lumens, 138 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-130w)	574.39
26 01 50 81-0026	EA	14,900 Lumens, 149 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-140w)	586.97
26 01 50 81-0027	EA	16,100 Lumens, 161 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-150w)	607.92
26 01 50 81-0028	EA	17,200 Lumens, 172 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-160w)	633.32
26 01 50 81-0029	EA	18,200 Lumens, 182 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-170w)	659.52
26 01 50 81-0030	EA	19,300 Lumens, 193 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-180w)	699.34
26 01 50 81-0031	EA	20,300 Lumens, 203 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-190w)	717.15
26 01 50 81-0032	EA	21,400 Lumens, 214 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-200w)	748.41
26 01 50 81-0033	EA	22,400 Lumens, 224 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-210w)	789.28
26 01 50 81-0034	EA	23,500 Lumens, 235 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-220w)	810.23
26 01 50 81-0035	EA	24,500 Lumens, 245 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-230w)	860.78
26 01 50 81-0036	EA	25,600 Lumens, 256 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-240w)	906.89
26 01 50 81-0037	EA	26,600 Lumens, 266 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-250w)	939.19
26 01 50 81-0038	EA	27,700 Lumens, 277 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-260w)	984.25
26 01 50 81-0039	EA	28,700 Lumens, 287 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-270w)	1,072.10
26 01 50 81-0040	EA	29,800 Lumens, 298 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-280w)	1,082.58
26 01 50 81-0041	EA	31,900 Lumens, 319 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-300w)	1,110.08

26 01 50 81-0042		LED Lighting Retrofits For Existing Fixtures (Optilumen) ^(26 01 50 81-0002)	
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.			
26 01 50 81-0043	EA	20 Watt, 1 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT1418M-35).....	151.59
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0044	EA	20 Watt, 1 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT1418M-40).....	151.59
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0045	EA	20 Watt, 1 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT1418M-50).....	151.59
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0046	EA	30 Watt, 2 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT2415M-35).....	156.83
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0047	EA	2 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2415M-40)	156.83
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0048	EA	2 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2415M-50)	156.83
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0049	EA	2 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2418M-35)	167.31
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0050	EA	2 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2418M-40)	167.31
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0051	EA	2 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2418M-50)	167.31
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0052	EA	3 x 42", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3415M-35)	156.83
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0053	EA	3 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3415M-40)	156.83
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0054	EA	3 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3415M-50)	156.83
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0055	EA	3 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3418M-35)	167.31
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0056	EA	3 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3418M-40)	167.31
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0057	EA	3 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3418M-50)	167.31
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0058	EA	3 x 42", 60 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3424M-35)	188.27
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0059	EA	3 x 42", 60 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3424M-40)	188.27
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0060	EA	3 x 42", 60 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3424M-50)	188.27
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0061	EA	1 x 21", 10 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT1209M-35)	151.59
Note: Fits 1' x 2' Troffer/Strip			
26 01 50 81-0062	EA	1 x 21", 10 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT1209M-40)	151.59
Note: Fits 1' x 2' Troffer/Strip			
26 01 50 81-0063	EA	1 x 21", 10 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT1209M-50)	151.59
Note: Fits 1' x 2' Troffer/Strip			
26 01 50 81-0064	EA	2 x 21", 22 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2209M-35)	151.59
Note: Fits 2' x 2' Troffer/Strip			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0065 EA 2 x 21", 22 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2209M-40).....	151.59	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0066 EA 2 x 21", 22 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2209M-50).....	151.59	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0067 EA 3 x 21", 20 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3209M-35).....	156.83	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0068 EA 3 x 21", 20 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3209M-40).....	156.83	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0069 EA 3 x 21", 20 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3209M-50).....	156.83	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0070 EA 3 x 21", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3210M-35).....	163.12	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0071 EA 3 x 21", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3210M-40).....	163.12	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0072 EA 3 x 21", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3210M-50).....	163.12	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0073 LED Lighting Retrofits For Existing Lay-In/Troffer Fixtures (LG) <small>(26 01 50 81-0002)</small>		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0074 EA 34 Watt, 3500K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-35-4400-R(W)-SN).....	324.29	
26 01 50 81-0075 EA 34 Watt, 4000K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-40-4500-R(W)-SN).....	324.29	
26 01 50 81-0076 EA 26 Watt, 3500K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-35-3400-R(W)-SN).....	293.91	
26 01 50 81-0077 EA 26 Watt, 4000K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-40-3400-R(W)-SN).....	293.91	
26 01 50 81-0078 EA 25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-35-3200-RV).....	152.58	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0079 EA 25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-40-3200-RV).....	152.58	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0080 EA 31 Watt, 4,050 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-35-3200-RV).....	172.49	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0081 EA 31 Watt, 4,050 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-40-3200-RV).....	172.49	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0082 EA 25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-35-3200-RV).....	187.16	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0083 EA 25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-40-3200-RV).....	187.16	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0084 EA 31 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-35-3200-RV).....	192.40	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0085 EA 31 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-40-3200-RV).....	192.40	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0086 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-2BDK-25-35-3120).....	122.19	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0087 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-2BDK-25-40-3120).....	122.19	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0088 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-4BDK-31-35-3880).....	134.76	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0089 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-4BDK-31-40-3880).....	134.76	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0090 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-35-3120-L).....	125.33	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0091 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-40-3120-L).....	125.33	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0092 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-35-3880-L).....	137.91	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0093 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-40-3880-L).....	137.91	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0094 EA 6" Diameter, 16 Watt, 1,450 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-35-1450).....	124.28	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0095 EA 6" Diameter, 16 Watt, 1,450 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-40-1450).....	124.28	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0096 EA 8" Diameter, 22 Watt, 2,000 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-35-2000).....	133.72	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0097 EA 8" Diameter, 22 Watt, 2,000 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-40-2000).....	133.72	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0098 LED Lighting Retrofit Accessories (LG) <small>(26 01 50 81-0002)</small>		
See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0099 EA Dongle (LG LGE-DONGLE).....	25.52	
26 01 50 81-0100 EA 1-group On/Off/Dim, 2-Button, Wireless Switch (LG LGE-SWITCH-BAT-2B).....	138.87	
26 01 50 81-0101 EA 2-group On/Off/Dim, 4-Button, Wireless Switch (LG LGE-SWITCH-BAT-4B).....	145.63	16.90
26 01 50 81-0102 EA 1-group On/Off/Dim, 2-Button, AC Powered Switch (LG LGE-SWITCH-AC-2B).....	176.40	16.90
26 01 50 81-0103 EA 2-group On/Off/Dim, 4-Button, AC Powered Switch (LG LGE-SWITCH-AC-4B).....	183.16	20.27
26 01 50 81-0104 EA Photo, Motion Sensor With ZigBee Dongle plugin (LG LGE-MULTI-SENSOR).....	92.71	13.52
26 01 50 81-0105 EA Tube Clip For Multi Sensor (LG LGE-TUBE-CLIP).....	34.76	13.52
26 01 50 81-0106 EA Ceiling Plate For Multi Sensor (LG LGE-CEILING-PLATE).....	36.96	13.52
26 01 50 81-0107 EA Wireless Interface Module (LG PIHN-W005A).....	90.27	20.27
Note: includes dongle		

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR
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26 01 50 81-0108	Retrofit Existing (T12) Fluorescent Fixtures <small>(26 01 50 81-0001)</small> Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for hazardous lamp recycling.		
26 01 50 81-0109	Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector <small>(26 01 50 81-0108)</small> Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0110	EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp..... <i>For Specular Ballast Cover, Add</i>	112.76	12.19
26 01 50 81-0111	EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Ballast Cover, Add</i>	118.82	13.40
26 01 50 81-0112	EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Ballast Cover, Add</i>	158.70	21.37
26 01 50 81-0113	EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps..... <i>For Specular Ballast Cover, Add</i>	179.82	25.60
26 01 50 81-0114	Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector <small>(26 01 50 81-0108)</small> Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0115	EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp..... <i>For Specular Reflector, Add</i>	118.63	13.36
26 01 50 81-0116	EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	125.39	14.71
26 01 50 81-0117	EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	166.92	23.02
26 01 50 81-0118	EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	208.69	31.37
26 01 50 81-0119	Retrofit Existing (T12) Troffer Style Fluorescent Fixtures <small>(26 01 50 81-0108)</small> Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0120	EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	148.69	16.41
26 01 50 81-0121	EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	154.76	17.62
26 01 50 81-0122	EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps..... <i>For Specular Reflector, Add</i>	158.33	18.34
26 01 50 81-0123	EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps..... <i>For Specular Reflector, Add</i>	175.40	21.75
26 01 50 81-0124	EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps..... <i>For Specular Reflector, Add</i>	209.56	28.58
26 01 50 81-0125	EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	161.79	19.03
26 01 50 81-0126	EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	175.90	21.85
26 01 50 81-0127	EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	187.60	24.19
26 01 50 81-0128	Retrofit Existing Recessed Lay-In/Troffer Fixtures <small>(26 01 50 81-0001)</small>		
26 01 50 81-0129	Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia) <small>(26 01 50 81-0128)</small> Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0130	EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	172.14	
26 01 50 81-0131	EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	172.14	
26 01 50 81-0132	EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	172.14	
26 01 50 81-0133	EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	185.66	
26 01 50 81-0134	EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	172.14	
26 01 50 81-0135	EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	172.14	
26 01 50 81-0136	EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	172.14	
26 01 50 81-0137	EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	185.66	
26 01 50 81-0138	EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	173.00	
26 01 50 81-0139	EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	173.00	
26 01 50 81-0140	EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	173.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0141 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	186.51	
26 01 50 81-0142 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	173.00	
26 01 50 81-0143 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	173.00	
26 01 50 81-0144 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	173.00	
26 01 50 81-0145 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	186.51	
26 01 50 81-0146 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED) <small>(26 01 50 81-0128)</small> Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0147 EA 2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025).....	232.16	
26 01 50 81-0148 EA 4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045).....	241.35	
26 01 50 81-0149 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™) <small>(26 01 50 81-0128)</small> Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0150 EA 1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L).....	352.67	
26 01 50 81-0151 EA 2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L).....	360.84	
26 01 50 81-0152 EA 2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L).....	352.67	
26 01 50 81-0153 EA 3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L).....	360.84	
26 01 50 81-0154 EA 3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L).....	401.70	
26 01 50 81-0155 EA 4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L).....	413.96	
26 01 50 81-0156 EA 5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L).....	442.56	
26 01 50 81-0157 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion) <small>(26 01 50 81-0128)</small> Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0158 EA 3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST).....	327.66	
26 01 50 81-0159 EA 3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST).....	339.06	
26 01 50 81-0160 EA 3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST).....	342.47	
26 01 50 81-0161 EA 3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST).....	353.87	
26 01 50 81-0162 EA 2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDSX84022MST).....	250.72	
26 01 50 81-0163 EA 4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDSX84022MST).....	256.14	
26 01 50 81-0164 EA 3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDSX84024MST).....	264.80	
26 01 50 81-0165 EA 4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDSX84024MST).....	270.21	
26 01 50 81-0166 EA 6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDSX84024MST).....	330.85	
26 01 50 81-0167 EA 8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (ORION LDRE1G1UNVFDSX84024MST).....	391.48	
26 01 50 81-0168 Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components) <small>(26 01 50 81-0128)</small> Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0169 EA 1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	295.00	
26 01 50 81-0170 EA 1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	222.23	
26 01 50 81-0171 EA 2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	302.09	
26 01 50 81-0172 EA 2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	229.21	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0173	EA	3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	315.33	
26 01 50 81-0174	EA	3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	248.17	
26 01 50 81-0175	EA	1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	346.13	
26 01 50 81-0176	EA	1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	273.16	
26 01 50 81-0177	EA	2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	352.81	
26 01 50 81-0178	EA	2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	279.84	
26 01 50 81-0179	EA	3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	365.95	
26 01 50 81-0180	EA	3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	298.76	
26 01 50 81-0181		LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT) <small>(26 01 50 81-0128)</small> Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0182	EA	3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT).....	640.03	
26 01 50 81-0183	EA	4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT).....	709.71	
26 01 50 81-0184		Retrofit Existing HID Fixtures <small>(26 01 50 81-0001)</small>		
26 01 50 81-0185	EA	Tear Drop LED Retrofit Kit (Holophane LTDR2L P35S 40K AS BK TDRD 3 P).....	1,446.17	
26 01 50 81-0186		LED Lighting Retrofits For Existing Fluorescent Fixtures <small>(26 01 50 81-0001)</small> Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0187		LED Lightbar Retrofit For Existing Fluorescent Fixtures (Lithonia) <small>(26 01 50 81-0186)</small>		
26 01 50 81-0188	EA	2' Length, 2 Bar, 2,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 2 2000LMHE 80CRI 35K MIN10 GZT MVOLT).....	121.03	
		<i>For >25 To 50, Deduct</i>	-6.05	
		<i>For >50 To 100, Deduct</i>	-10.74	
		<i>For >100, Deduct</i>	-18.77	
26 01 50 81-0189	EA	2' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 4 8000LMHE 80CRI MIN10 GZT MVOLT).....	167.64	
		<i>For >25 To 50, Deduct</i>	-8.38	
		<i>For >50 To 100, Deduct</i>	-14.24	
		<i>For >100, Deduct</i>	-23.43	
26 01 50 81-0190	EA	3' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	131.05	
		<i>For >25 To 50, Deduct</i>	-6.55	
		<i>For >50 To 100, Deduct</i>	-11.59	
		<i>For >100, Deduct</i>	-20.14	
26 01 50 81-0191	EA	3' Length, 1 Bar, 1,600 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 1 1600LMHE 80CRI 35K MIN10 GZT MVOLT).....	121.96	
		<i>For >25 To 50, Deduct</i>	-6.10	
		<i>For >50 To 100, Deduct</i>	-10.91	
		<i>For >100, Deduct</i>	-19.23	
26 01 50 81-0192	EA	4' Length, 2 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....	154.84	
		<i>For >25 To 50, Deduct</i>	-7.74	
		<i>For >50 To 100, Deduct</i>	-13.46	
		<i>For >100, Deduct</i>	-22.89	
26 01 50 81-0193	EA	4' Length, 4 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....	195.24	
		<i>For >25 To 50, Deduct</i>	-9.76	
		<i>For >50 To 100, Deduct</i>	-16.49	
		<i>For >100, Deduct</i>	-26.93	
26 01 50 81-0194	EA	4' Length, 1 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	131.27	
		<i>For >25 To 50, Deduct</i>	-6.56	
		<i>For >50 To 100, Deduct</i>	-11.70	
		<i>For >100, Deduct</i>	-20.53	
26 01 50 81-0195	EA	4' Length, 1 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	131.27	
		<i>For >25 To 50, Deduct</i>	-6.56	
		<i>For >50 To 100, Deduct</i>	-11.70	
		<i>For >100, Deduct</i>	-20.53	
26 01 50 81-0196	EA	4' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 8000LMHE 80CRI 35K MIN10 GZT MVOLT).....	162.92	
		<i>For >25 To 50, Deduct</i>	-8.15	
		<i>For >50 To 100, Deduct</i>	-14.07	
		<i>For >100, Deduct</i>	-23.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0197 EA 4' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	141.37	
<i>For >25 To 50, Deduct</i>	-7.07	
<i>For >50 To 100, Deduct</i>	-12.45	
<i>For >100, Deduct</i>	-21.54	
26 01 50 81-0198 EA 4' Length, 2 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	141.37	
<i>For >25 To 50, Deduct</i>	-7.07	
<i>For >50 To 100, Deduct</i>	-12.45	
<i>For >100, Deduct</i>	-21.54	
26 01 50 81-0199 LED Retrofit For Existing Fluorescent Fixtures (Lithonia) <small>(26 01 50 81-0186)</small>		
26 01 50 81-0200 EA 1'x 4', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	264.96	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	161.11	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	104.73	
<i>For >25 To 50, Deduct</i>	-13.25	
<i>For >50 To 100, Deduct</i>	-21.72	
<i>For >100, Deduct</i>	-33.90	
26 01 50 81-0201 EA 1'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2).....	284.06	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	161.11	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	104.73	
<i>For >25 To 50, Deduct</i>	-14.20	
<i>For >50 To 100, Deduct</i>	-23.16	
<i>For >100, Deduct</i>	-35.81	
26 01 50 81-0202 EA 2'x 2', 3,300 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R 33LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	298.35	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	161.11	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	104.73	
<i>For >25 To 50, Deduct</i>	-14.92	
<i>For >50 To 100, Deduct</i>	-24.23	
<i>For >100, Deduct</i>	-37.24	
26 01 50 81-0203 EA 2'x 2', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	320.66	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	161.11	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	104.73	
<i>For >25 To 50, Deduct</i>	-16.03	
<i>For >50 To 100, Deduct</i>	-25.90	
<i>For >100, Deduct</i>	-39.47	
26 01 50 81-0204 EA 2'x 4', 4,000 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 40LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	346.47	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	161.11	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	104.73	
<i>For >25 To 50, Deduct</i>	-17.32	
<i>For >50 To 100, Deduct</i>	-28.21	
<i>For >100, Deduct</i>	-43.53	
26 01 50 81-0205 EA 2'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	372.38	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	161.11	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	104.73	
<i>For >25 To 50, Deduct</i>	-18.62	
<i>For >50 To 100, Deduct</i>	-30.15	
<i>For >100, Deduct</i>	-46.12	
26 01 50 81-0206 LED Lighting Retrofits For Existing Fluorescent Fixtures (ELED Lights) <small>(26 01 50 81-0186)</small>		
<small>Note: Includes removal of existing fluorescent lamps, installing LED strip lighting and trim. Excludes recycling or disposal of lamps. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.</small>		
26 01 50 81-0207 EA 2' Dimmable, 20 Watts, 2900 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W40).....	116.11	
<i>Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver</i>		
<i>For >25 To 50, Deduct</i>	-5.81	
<i>For >50 To 100, Deduct</i>	-10.37	
<i>For >100, Deduct</i>	-18.28	
26 01 50 81-0208 EA 2' Dimmable, 20 Watts, 2900 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W50).....	116.11	
<i>Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver</i>		
<i>For >25 To 50, Deduct</i>	-5.81	
<i>For >50 To 100, Deduct</i>	-10.37	
<i>For >100, Deduct</i>	-18.28	
26 01 50 81-0209 EA 4' Dimmable, 32 Watts, 5000 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W40).....	150.01	
<i>Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver</i>		
<i>For >25 To 50, Deduct</i>	-7.50	
<i>For >50 To 100, Deduct</i>	-13.10	
<i>For >100, Deduct</i>	-22.41	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0210	EA	4' Dimmable, 32 Watts, 5000 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W50).....	150.01	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-7.50	
		<i>For >50 To 100, Deduct</i>	-13.10	
		<i>For >100, Deduct</i>	-22.41	
26 01 50 81-0211	EA	4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30).....	150.12	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-7.51	
		<i>For >50 To 100, Deduct</i>	-13.11	
		<i>For >100, Deduct</i>	-22.42	
26 01 50 81-0212	EA	4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30F).....	162.30	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-8.12	
		<i>For >50 To 100, Deduct</i>	-14.02	
		<i>For >100, Deduct</i>	-23.64	
26 01 50 81-0213	EA	4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35).....	150.12	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-7.51	
		<i>For >50 To 100, Deduct</i>	-13.11	
		<i>For >100, Deduct</i>	-22.42	
26 01 50 81-0214	EA	4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35F).....	162.30	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-8.12	
		<i>For >50 To 100, Deduct</i>	-14.02	
		<i>For >100, Deduct</i>	-23.64	
26 01 50 81-0215	EA	4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40).....	150.12	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-7.51	
		<i>For >50 To 100, Deduct</i>	-13.11	
		<i>For >100, Deduct</i>	-22.42	
26 01 50 81-0216	EA	4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40F).....	162.30	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-8.12	
		<i>For >50 To 100, Deduct</i>	-14.02	
		<i>For >100, Deduct</i>	-23.64	
26 01 50 81-0217	EA	4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50).....	150.12	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-7.51	
		<i>For >50 To 100, Deduct</i>	-13.11	
		<i>For >100, Deduct</i>	-22.42	
26 01 50 81-0218	EA	4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50F).....	162.30	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-8.12	
		<i>For >50 To 100, Deduct</i>	-14.02	
		<i>For >100, Deduct</i>	-23.64	
26 01 50 81-0219	EA	4' Dimmable, 46 Watts, 6800 Lumens, 5000K, Ultra High Lumen Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD46W50).....	162.20	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-8.11	
		<i>For >50 To 100, Deduct</i>	-14.02	
		<i>For >100, Deduct</i>	-23.63	
26 01 50 81-0220	EA	4' Dimmable, 31 Watts, 5730 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....	188.27	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-9.41	
		<i>For >50 To 100, Deduct</i>	-15.97	
		<i>For >100, Deduct</i>	-26.23	
26 01 50 81-0221	EA	4' Dimmable, 31 Watts, 5730 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F).....	203.50	
		Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-10.18	
		<i>For >50 To 100, Deduct</i>	-17.11	
		<i>For >100, Deduct</i>	-27.76	
26 01 50 81-0222	EA	4' Dimmable, 31 Watts, 5730 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....	188.27	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		<i>For >25 To 50, Deduct</i>	-9.41	
		<i>For >50 To 100, Deduct</i>	-15.97	
		<i>For >100, Deduct</i>	-26.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0223 EA 4' Dimmable, 31 Watts, 5730 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F) Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver	203.50	
<i>For >25 To 50, Deduct</i>	-10.18	
<i>For >50 To 100, Deduct</i>	-17.11	
<i>For >100, Deduct</i>	-27.76	
26 01 50 81-0224 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS BLD-AM20D-480800) Note: 90-minute emergency battery with DIP switch-selectable power output of 10 Watts, 15 Watts, or 20 Watts	189.94	
<i>For >25 To 50, Deduct</i>	-9.50	
<i>For >50 To 100, Deduct</i>	-14.62	
<i>For >100, Deduct</i>	-20.48	
26 01 50 81-0225 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS EM-HM-20W) Note: 90-minute emergency battery with power output of 20 Watts	174.53	
<i>For >25 To 50, Deduct</i>	-8.73	
<i>For >50 To 100, Deduct</i>	-13.46	
<i>For >100, Deduct</i>	-18.93	
26 01 50 81-0226 EA 8' Dimmable, 46 Watts, 7400 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD46W50) Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver	195.07	
<i>For >25 To 50, Deduct</i>	-9.75	
<i>For >50 To 100, Deduct</i>	-17.04	
<i>For >100, Deduct</i>	-29.13	
26 01 50 81-0227 EA 8' Dimmable, 49 Watts, 6680 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD49W50F) Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver	202.68	
<i>For >25 To 50, Deduct</i>	-10.13	
<i>For >50 To 100, Deduct</i>	-17.61	
<i>For >100, Deduct</i>	-29.89	
26 01 50 81-0228 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40) Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver	277.49	
<i>For >25 To 50, Deduct</i>	-13.87	
<i>For >50 To 100, Deduct</i>	-23.22	
<i>For >100, Deduct</i>	-37.38	
26 01 50 81-0229 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F) Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver	307.94	
<i>For >25 To 50, Deduct</i>	-15.40	
<i>For >50 To 100, Deduct</i>	-25.50	
<i>For >100, Deduct</i>	-40.42	
26 01 50 81-0230 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50) Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver	277.49	
<i>For >25 To 50, Deduct</i>	-13.87	
<i>For >50 To 100, Deduct</i>	-23.22	
<i>For >100, Deduct</i>	-37.38	
26 01 50 81-0231 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F) Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver	307.94	
<i>For >25 To 50, Deduct</i>	-15.40	
<i>For >50 To 100, Deduct</i>	-25.50	
<i>For >100, Deduct</i>	-40.42	

26 05 Common Work Results for Electrical ⁽²⁶⁾

26 05 13 Medium-Voltage Cables ^(26 05)

26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables ^(26 05 13)

26 05 13 16-0001 Wire And Cable ^(26 05 13 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 13 16-0002 5 KV Cable ^(26 05 13 16-0001)

26 05 13 16-0003 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct ^(26 05 13 16-0002)

26 05 13 16-0004 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,229.56	1,145.02
26 05 13 16-0005 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,973.82	1,250.25
26 05 13 16-0006 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,911.42	1,412.59
26 05 13 16-0007 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,642.19	1,740.37
26 05 13 16-0008 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,697.31	1,959.81
26 05 13 16-0009 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,603.46	2,175.34
26 05 13 16-0010 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,933.91	2,444.21
26 05 13 16-0011 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,110.09	2,719.29
26 05 13 16-0012 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	16,472.24	3,246.77
26 05 13 16-0013 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	20,681.35	3,816.51
26 05 13 16-0014 MLF 750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	30,445.73	4,498.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0015 MLF 1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	40,217.31	5,179.50
26 05 13 16-0016 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial <small>(26 05 13 16-0002)</small>		
Note: Excludes excavation.		
26 05 13 16-0017 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,086.44	
26 05 13 16-0018 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,567.49	
26 05 13 16-0019 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,099.19	
26 05 13 16-0020 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,279.58	
26 05 13 16-0021 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,785.96	
26 05 13 16-0022 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,421.55	
26 05 13 16-0023 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,079.83	
26 05 13 16-0024 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,843.47	
26 05 13 16-0025 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,029.76	
26 05 13 16-0026 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	14,943.27	
26 05 13 16-0027 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) <small>(26 05 13 16-0002)</small>		
26 05 13 16-0028 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,267.14	720.83
26 05 13 16-0029 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,885.73	772.88
26 05 13 16-0030 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,956.14	977.38
26 05 13 16-0031 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,418.89	1,186.50
26 05 13 16-0032 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,469.17	1,392.85
26 05 13 16-0033 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,363.75	1,592.88
26 05 13 16-0034 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,694.90	1,848.18
26 05 13 16-0035 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,440.84	2,325.14
26 05 13 16-0036 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	16,109.98	2,942.02
26 05 13 16-0037 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	20,883.45	3,696.37
26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor <small>(26 05 13 16-0002)</small>		
26 05 13 16-0039 MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,121.81	2,281.88
26 05 13 16-0040 MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,399.88	2,314.67
26 05 13 16-0041 MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,677.96	2,347.47
26 05 13 16-0042 MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,149.12	2,399.35
26 05 13 16-0043 MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,404.29	2,490.88
26 05 13 16-0044 MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	20,194.62	2,610.47
26 05 13 16-0045 MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	30,938.46	3,263.09
26 05 13 16-0046 MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	35,935.78	4,350.84
26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct <small>(26 05 13 16-0002)</small>		
26 05 13 16-0048 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,475.66	1,145.02
26 05 13 16-0049 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,306.51	1,250.25
26 05 13 16-0050 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,339.81	1,412.59
26 05 13 16-0051 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,287.01	1,576.40
26 05 13 16-0052 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,234.64	1,740.37
26 05 13 16-0053 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,380.91	1,959.81
26 05 13 16-0054 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,533.15	2,175.34
26 05 13 16-0055 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,982.09	2,444.21
26 05 13 16-0056 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,426.24	2,719.29
26 05 13 16-0057 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,976.16	3,246.77
26 05 13 16-0058 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,686.57	3,816.51
26 05 13 16-0059 MLF 750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	33,902.52	4,498.17
26 05 13 16-0060 MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	45,125.65	5,179.50
26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial <small>(26 05 13 16-0002)</small>		
Note: Excludes excavation.		
26 05 13 16-0062 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,332.53	
26 05 13 16-0063 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,900.18	
26 05 13 16-0064 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,527.58	
26 05 13 16-0065 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,200.42	
26 05 13 16-0066 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,872.04	
26 05 13 16-0067 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,469.56	
26 05 13 16-0068 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,351.24	
26 05 13 16-0069 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,128.01	
26 05 13 16-0070 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,159.63	
26 05 13 16-0071 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,533.68	
26 05 13 16-0072 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	16,948.50	
26 05 13 16-0073 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) <small>(26 05 13 16-0002)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0074	MLF		#6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,513.24	720.83
26 05 13 16-0075	MLF		#4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,218.42	772.88
26 05 13 16-0076	MLF		#2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,384.53	977.38
26 05 13 16-0077	MLF		#1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,195.99	1,081.17
26 05 13 16-0078	MLF		1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,011.34	1,186.50
26 05 13 16-0079	MLF		2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,152.77	1,392.85
26 05 13 16-0080	MLF		3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,293.44	1,592.88
26 05 13 16-0081	MLF		4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,743.08	1,848.18
26 05 13 16-0082	MLF		250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,757.00	2,325.14
26 05 13 16-0083	MLF		350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,613.90	2,942.02
26 05 13 16-0084	MLF		500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	22,888.67	3,696.37
26 05 13 16-0085			15 KV Cable <small>(26 05 13 16-0001)</small>		
26 05 13 16-0086			Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0085)</small>		
26 05 13 16-0087			Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0086)</small>		
26 05 13 16-0088	MLF		#4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,015.42	2,281.88
26 05 13 16-0089	MLF		#2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,688.91	2,281.88
26 05 13 16-0090	MLF		#1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,945.81	2,281.88
26 05 13 16-0091	MLF		1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,782.68	2,281.88
26 05 13 16-0092	MLF		2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,577.00	2,281.88
26 05 13 16-0093	MLF		3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,160.17	2,381.89
26 05 13 16-0094	MLF		4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,472.22	2,381.89
26 05 13 16-0095	MLF		250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,447.06	2,490.88
26 05 13 16-0096	MLF		350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	17,422.80	2,549.29
26 05 13 16-0097	MLF		500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	21,391.47	2,871.51
26 05 13 16-0098			Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial <small>(26 05 13 16-0086)</small>		
			Note: Excludes excavation.		
26 05 13 16-0099	MLF		#1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,491.20	
26 05 13 16-0100	MLF		2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,328.07	
26 05 13 16-0101	MLF		3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,122.39	
26 05 13 16-0102	MLF		4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,737.11	
26 05 13 16-0103	MLF		250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,049.15	
26 05 13 16-0104	MLF		350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,159.24	
26 05 13 16-0105	MLF		500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	15,138.65	
26 05 13 16-0106	MLF			18,781.01	
26 05 13 16-0107			Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) <small>(26 05 13 16-0086)</small>		
26 05 13 16-0108	MLF		#1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,955.31	1,029.74
26 05 13 16-0109	MLF		2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,205.46	1,186.50
26 05 13 16-0110	MLF		3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,543.69	1,392.85
26 05 13 16-0111	MLF		4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,404.40	1,592.88
26 05 13 16-0112	MLF		250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,389.31	1,848.18
26 05 13 16-0113	MLF		350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,891.28	2,151.53
26 05 13 16-0114	MLF		500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,658.07	2,507.07
26 05 13 16-0115	MLF			21,889.23	2,912.21
26 05 13 16-0116			Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0085)</small>		
26 05 13 16-0117			Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0116)</small>		
26 05 13 16-0118	MLF		#4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,611.35	2,281.88
26 05 13 16-0119	MLF		#2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,406.07	2,281.88
26 05 13 16-0120	MLF		#1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,709.21	2,281.88
26 05 13 16-0121	MLF		1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,696.72	2,281.88
26 05 13 16-0122	MLF		2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,634.02	2,281.88
26 05 13 16-0123	MLF		3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,457.18	2,381.89
26 05 13 16-0124	MLF		4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,825.41	2,381.89
26 05 13 16-0125	MLF		250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	17,106.63	2,490.88
26 05 13 16-0126	MLF		350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	19,411.72	2,549.29
26 05 13 16-0127	MLF		500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	23,949.75	2,871.51
26 05 13 16-0128			Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial <small>(26 05 13 16-0116)</small>		
			Note: Excludes excavation.		
26 05 13 16-0129	MLF		#1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,254.60	
26 05 13 16-0130	MLF		2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,242.11	

26 Electrical
26 05 Common Work Results for Electrical
26 05 13 Medium-Voltage Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0131 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,179.40	
26 05 13 16-0132 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,034.12	
26 05 13 16-0133 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,402.34	
26 05 13 16-0134 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	14,813.98	
26 05 13 16-0135 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	17,117.35	
26 05 13 16-0136 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	21,339.29	
26 05 13 16-0137 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0116)		
26 05 13 16-0138 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,718.71	1,029.74
26 05 13 16-0139 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,119.50	1,186.50
26 05 13 16-0140 MLF 2/0 AWG, EPEPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) ...	10,600.70	1,392.85
26 05 13 16-0141 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,701.41	1,592.88
26 05 13 16-0142 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,742.49	1,848.18
26 05 13 16-0143 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	16,550.84	2,151.53
26 05 13 16-0144 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	19,646.99	2,507.07
26 05 13 16-0145 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	24,447.51	2,912.21
26 05 13 16-0146 15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0085)		
26 05 13 16-0147 MLF 1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,616.50	2,289.88
26 05 13 16-0148 MLF 2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,030.36	2,344.61
26 05 13 16-0149 MLF 3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	16,208.37	2,399.35
26 05 13 16-0150 MLF 350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,037.46	2,559.24
26 05 13 16-0151 Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0085)		
Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152 Galvanized Steel Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0153 LF 3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	62.06	17.46
26 05 13 16-0154 LF 3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	73.47	18.60
26 05 13 16-0155 Aluminum Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0156 LF 3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	62.06	17.46
26 05 13 16-0157 LF 3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	73.47	18.60
26 05 13 16-0158 Type URD, 15 KV Primary Concentric UD Cable (26 05 13 16-0085)		
Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0159 MLF #4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	4,468.13	1,145.02
26 05 13 16-0160 MLF #2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	5,296.33	1,250.25
26 05 13 16-0161 MLF #1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	6,326.71	1,412.59
26 05 13 16-0162 MLF 1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	8,204.95	1,735.64
26 05 13 16-0163 MLF 2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	9,345.34	1,953.94
26 05 13 16-0164 MLF 3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	11,504.72	2,175.34
26 05 13 16-0165 MLF 4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	12,927.25	2,435.08
26 05 13 16-0166 15 KV, URD Copper Cable, Direct Burial (26 05 13 16-0085)		
26 05 13 16-0167 MLF 3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial	20,436.21	
26 05 13 16-0168 Wire Connections (26 05 13 16-0001)		
26 05 13 16-0169 Medium Voltage Up To 5 KV (26 05 13 16-0168)		
26 05 13 16-0170 Shielded One Conductor Cable Splice (26 05 13 16-0169)		
26 05 13 16-0171 EA #6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	443.70	147.91
26 05 13 16-0172 EA #2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	586.49	147.91
26 05 13 16-0173 EA 1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	586.49	147.91
26 05 13 16-0174 EA 2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	630.51	177.48
26 05 13 16-0175 EA 3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	630.51	177.48
26 05 13 16-0176 EA 4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	630.51	177.48
26 05 13 16-0177 EA 250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	689.20	207.07
26 05 13 16-0178 EA 350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	689.20	207.07
26 05 13 16-0179 EA 500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	689.20	207.07
26 05 13 16-0180 Cable Termination Without Stress Cone (26 05 13 16-0169)		
26 05 13 16-0181 EA #6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	655.23	177.48
26 05 13 16-0182 EA 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	756.49	207.07
26 05 13 16-0183 Cable Termination With Stress Cone (26 05 13 16-0169)		
26 05 13 16-0184 EA #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	1,931.42	354.96
26 05 13 16-0185 EA 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	2,656.16	488.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0186 Connect To Pothead, Pothead Included <small>(26 05 13 16-0169)</small>		
26 05 13 16-0187 EA #6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	2,017.67	354.96
26 05 13 16-0188 EA 250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	2,578.10	406.74
26 05 13 16-0189 Two Conductor Pothead <small>(26 05 13 16-0169)</small>		
<small>Note: Includes 5 KV pothead.</small>		
26 05 13 16-0190 EA #6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,505.55	488.08
26 05 13 16-0191 EA 250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	2,011.82	621.20
26 05 13 16-0192 EA 400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	3,042.94	704.32
26 05 13 16-0193 EA 750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	4,912.06	821.75
26 05 13 16-0194 EA 1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	9,002.44	1,232.47
26 05 13 16-0195 Three Conductor Pothead <small>(26 05 13 16-0169)</small>		
<small>Note: Includes 5 KV pothead.</small>		
26 05 13 16-0196 EA #6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	5,960.34	709.94
26 05 13 16-0197 EA 250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	6,532.26	828.26
26 05 13 16-0198 Copper Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0169)</small>		
<small>Note: For bare wire.</small>		
26 05 13 16-0199 EA #6 AWG Crimp Compression Connection For Bare Copper Wire	95.61	
26 05 13 16-0200 EA #4 AWG Crimp Compression Connection For Bare Copper Wire	105.63	
26 05 13 16-0201 EA #3 AWG Crimp Compression Connection For Bare Copper Wire	123.16	
26 05 13 16-0202 EA #2 AWG Crimp Compression Connection For Bare Copper Wire	139.47	
26 05 13 16-0203 EA #1 AWG Crimp Compression Connection For Bare Copper Wire	157.49	
26 05 13 16-0204 EA 1/0 AWG Crimp Compression Connection For Bare Copper Wire	174.83	
26 05 13 16-0205 EA 2/0 AWG Crimp Compression Connection For Bare Copper Wire	191.90	
26 05 13 16-0206 EA 3/0 AWG Crimp Compression Connection For Bare Copper Wire	210.12	
26 05 13 16-0207 EA 4/0 AWG Crimp Compression Connection For Bare Copper Wire	227.65	
26 05 13 16-0208 EA 250 MCM Crimp Compression Connection For Bare Copper Wire	245.69	
26 05 13 16-0209 EA 300 MCM Crimp Compression Connection For Bare Copper Wire	264.39	
26 05 13 16-0210 EA 350 MCM Crimp Compression Connection For Bare Copper Wire	281.50	
26 05 13 16-0211 EA 400 MCM Crimp Compression Connection For Bare Copper Wire	318.50	
26 05 13 16-0212 EA 500 MCM Crimp Compression Connection For Bare Copper Wire	357.10	
26 05 13 16-0213 Aluminum Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0169)</small>		
<small>Note: For bare wire.</small>		
26 05 13 16-0214 EA #6 AWG Crimp Compression Connection For Bare Aluminum Wire	98.69	
26 05 13 16-0215 EA #4 AWG Crimp Compression Connection For Bare Aluminum Wire	107.33	
26 05 13 16-0216 EA #2 AWG Crimp Compression Connection For Bare Aluminum Wire	145.08	
26 05 13 16-0217 EA #1 AWG Crimp Compression Connection For Bare Aluminum Wire	171.76	
26 05 13 16-0218 EA 1/0 AWG Crimp Compression Connection For Bare Aluminum Wire	188.30	
26 05 13 16-0219 EA 2/0 AWG Crimp Compression Connection For Bare Aluminum Wire	204.76	
26 05 13 16-0220 EA 3/0 AWG Crimp Compression Connection For Bare Aluminum Wire	225.06	
26 05 13 16-0221 EA 4/0 AWG Crimp Compression Connection For Bare Aluminum Wire	243.45	
26 05 13 16-0222 EA 250 MCM Crimp Compression Connection For Bare Aluminum Wire	261.11	
26 05 13 16-0223 EA 300 MCM Crimp Compression Connection For Bare Aluminum Wire	279.47	
26 05 13 16-0224 EA 350 MCM Crimp Compression Connection For Bare Aluminum Wire	297.33	
26 05 13 16-0225 EA 400 MCM Crimp Compression Connection For Bare Aluminum Wire	341.18	
26 05 13 16-0226 EA 500 MCM Crimp Compression Connection For Bare Aluminum Wire	385.39	
26 05 13 16-0227 15 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0228 Single Conductor Pothead On Racks <small>(26 05 13 16-0227)</small>		
<small>Note: Includes pothead.</small>		
26 05 13 16-0229 EA #2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks	1,831.65	621.20
26 05 13 16-0230 EA 250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks	2,334.81	769.09
26 05 13 16-0231 Two Conductor Pothead On Rack <small>(26 05 13 16-0227)</small>		
<small>Note: Includes pothead.</small>		
26 05 13 16-0232 EA #2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks	2,704.24	946.58
26 05 13 16-0233 EA 250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks	3,249.24	1,124.07
26 05 13 16-0234 Three Conductor Pothead On Rack <small>(26 05 13 16-0227)</small>		
<small>Note: Includes pothead.</small>		
26 05 13 16-0235 EA #2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks	3,455.87	1,227.59
26 05 13 16-0236 EA 250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks	4,305.93	1,538.20
26 05 13 16-0237 Stress Relief Cone On Rack <small>(26 05 13 16-0227)</small>		
26 05 13 16-0238 EA #2 To 4/0 AWG Stress Relief Cone, On Rack	1,727.45	621.20
26 05 13 16-0239 EA 250 To 500 MCM Stress Relief Cone, On Rack	2,217.66	769.09

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0240 Grounded, Shielded Cable Splice <small>(26 05 13 16-0227)</small>		
26 05 13 16-0241 EA #2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	1,195.36	458.50
26 05 13 16-0242 EA 250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	1,532.14	591.61
26 05 13 16-0243 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way.....	7,191.12	1,626.94
26 05 13 16-0244 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way.....	9,189.66	1,774.84
26 05 13 16-0245 Cable Termination <small>(26 05 13 16-0227)</small>		
26 05 13 16-0246 EA #2 To 3/0 AWG Cable Termination 15 KV.....	786.61	258.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	155.30	
26 05 13 16-0247 EA 4/0 To 250 MCM Cable Termination 15 KV.....	994.63	332.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.67	
26 05 13 16-0248 EA 350 To 500 MCM Cable Termination 15 KV.....	1,232.25	406.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	244.04	
26 05 13 16-0249 EA #2 To 3/0 AWG Cable Elbow Termination 15 KV.....	498.69	147.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.74	
26 05 13 16-0250 Stress Cones, 5-15 KV, 4 Skirted <small>(26 05 13 16-0227)</small>		
26 05 13 16-0251 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	984.79	192.28
26 05 13 16-0252 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	1,120.71	212.50
26 05 13 16-0253 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	1,328.17	232.56
26 05 13 16-0254 EA 400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	1,703.87	267.95
26 05 13 16-0255 Stress Cones, 5-15 KV, 6 Skirted <small>(26 05 13 16-0227)</small>		
26 05 13 16-0256 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,969.60	385.20
26 05 13 16-0257 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	2,241.69	425.01
26 05 13 16-0258 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	2,639.09	456.49
26 05 13 16-0259 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	3,407.73	535.88
26 05 13 16-0260 35 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0261 35 KV One Conductor Splice <small>(26 05 13 16-0260)</small>		
26 05 13 16-0262 EA #1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing.....	2,985.23	
26 05 13 16-0263 Cable Termination <small>(26 05 13 16-0260)</small>		
26 05 13 16-0264 EA #2 To 3/0 AWG Cable Termination, 35 KV.....	679.76	177.63
26 05 13 16-0265 EA 3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	932.99	268.01
26 05 13 16-0266 EA 350 To 500 MCM Cable Termination 35 KV.....	1,078.66	286.64
26 05 13 16-0267 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV.....	540.64	147.91
26 05 13 16-0268 70 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0269 Cable Splice <small>(26 05 13 16-0268)</small>		
26 05 13 16-0270 EA 350 MCM, 70 KV, Cable Splicing.....	15,123.22	
26 05 13 16-0271 EA #2 To 4/0, 70 KV, Cable Splicing.....	3,090.64	
26 05 19 Low-Voltage Electrical Power Conductors and Cables <small>(26 05)</small>		
26 05 19 13 Undercarpet Electrical Power Cables <small>(26 05 19)</small>		
26 05 19 13-0001 Under Carpet Power System <small>(26 05 19 13)</small>		
Note: Includes laying out, floor prep, taping, drill floor, folds, identifying, tagging and testing		
26 05 19 13-0002 LF 3-Conductor, #12 Flat Cable With Attached Bottom Shield.....	6.66	0.67
26 05 19 13-0003 LF Steel, Top Shield.....	13.55	0.67
26 05 19 13-0004 EA 3-Conductor, Splice.....	40.13	11.48
26 05 19 13-0005 EA Splice Top Shield For 3 Conductor.....	12.22	5.40
26 05 19 13-0006 EA 3-Conductor, Tap.....	49.78	13.52
26 05 19 13-0007 EA Insulating Patch, Splice Tap And End.....	74.72	11.48
26 05 19 13-0008 EA 3-Conductor, Transition Block Assembly.....	48.52	6.75
26 05 19 13-0009 EA Single, Direct Connected, Receptacle With Box.....	146.71	21.62
26 05 19 13-0010 EA Dual, Direct Connected, Receptacle With Box.....	243.83	33.78
26 05 19 13-0011 EA Floor Mounted Box With Cover.....	240.95	27.03
26 05 19 13-0012 LF 5-Conductor, #12 Cable With Attached Bottom Shield.....	10.48	0.67
26 05 19 13-0013 LF Steel, Top Shield For 5-Conductor Cable.....	10.40	0.67
26 05 19 13-0014 EA 5-Conductor, Splice.....	40.62	11.48
26 05 19 13-0015 EA 5-Conductor, Transition Block Assembly.....	63.53	6.75
26 05 19 13-0016 EA Box, Wall, Flush With Cover.....	112.69	27.03
26 05 19 13-0017 EA Telephone, Transition Fitting Wall Box.....	75.63	22.30
26 05 19 13-0018 EA RJ-45, Telephone Fitting With Duplex Jack And Cover.....	98.43	25.67
26 05 19 13-0019 EA Miniature Telephone With Duplex RJ-45.....	42.08	10.13
26 05 19 13-0020 LF 4-Pair, Level 5, Under Carpet Telephone Wire.....	2.47	0.67
26 05 19 13-0021 EA BNC, Coax Plug, Connector.....	35.22	13.52
26 05 19 13-0022 EA TNC, Coax Plug, Connector.....	35.22	13.52



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 19 13-0023	CLF Under Carpet Power System; Flat RG A/U 59, 75 Ohm, RG A/U 62, 93 Ohm, RG A/U 58, 50 Ohm	184.14	67.57
26 05 19 16		Low-Voltage, Single-and Multi-Conductor Cables <small>(26 05 19)</small>		
	26 05 19 16-0001	Cable Installation Methods <small>(26 05 19 16)</small>		
	26 05 19 16-0002	Pull Cord <small>(26 05 19 16-0001)</small> Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
	26 05 19 16-0003	LF Pull String Installed To Remain In Place, In Existing Conduit	0.46	
	26 05 19 16-0004	LF Pull String Installed To Remain In Place, In New Conduits	0.24	
	26 05 19 16-0005	LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit	0.76	
	26 05 19 16-0006	LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.47	
	26 05 19 16-0007	Bore Conduit Into Dirt Or Sand <small>(26 05 19 16-0001)</small> Note: For installation under roads, driveways or other structures up to 20'.		
	26 05 19 16-0008	LF Bore 1" To 4" Conduit Into Dirt Or Sand	3.12	
	26 05 19 16-0009	LF Bore 5" To 8" Conduit Into Dirt Or Sand	3.97	
	26 05 19 16-0010	EA Boring Minimum Set-Up Charge	436.56	
		Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
	26 05 19 16-0011	Wire and Cable <small>(26 05 19 16)</small> Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, splicing (#8 and lighter), identifying, tagging and testing. All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations.		
	26 05 19 16-0012	Multi-Conductor Cords, Cables And Associated Equipment <small>(26 05 19 16-0011)</small>		
	26 05 19 16-0013	Multi-Conductor Cords <small>(26 05 19 16-0012)</small> Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
	26 05 19 16-0014	Multi-Conductor Type SOOW And SJOOW Cord <small>(26 05 19 16-0013)</small> Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
	26 05 19 16-0015	300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0014)</small>		
	26 05 19 16-0016	#18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0015)</small>		
	26 05 19 16-0017	LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.46	0.59
	26 05 19 16-0018	LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.53	0.59
	26 05 19 16-0019	LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.71	0.59
	26 05 19 16-0020	#16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0015)</small>		
	26 05 19 16-0021	LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.71	0.59
	26 05 19 16-0022	LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.82	0.59
	26 05 19 16-0023	LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.98	0.59
	26 05 19 16-0024	#14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0015)</small>		
	26 05 19 16-0025	LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.91	0.59
	26 05 19 16-0026	LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.09	0.59
	26 05 19 16-0027	LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.43	0.59
	26 05 19 16-0028	#12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0015)</small>		
	26 05 19 16-0029	LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.21	0.59
	26 05 19 16-0030	LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.42	0.59
	26 05 19 16-0031	LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.71	0.59
	26 05 19 16-0032	#10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0015)</small>		
	26 05 19 16-0033	LF 2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.86	0.74
	26 05 19 16-0034	LF 3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	3.00	0.74
	26 05 19 16-0035	LF 4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	3.22	0.74
	26 05 19 16-0036	600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0014)</small>		
	26 05 19 16-0037	#18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
	26 05 19 16-0038	LF 2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.53	0.59
	26 05 19 16-0039	LF 3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.65	0.59
	26 05 19 16-0040	LF 4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.82	0.59
	26 05 19 16-0041	LF 5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.15	0.80
	26 05 19 16-0042	LF 6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.44	0.82
	26 05 19 16-0043	LF 7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.65	0.84
	26 05 19 16-0044	LF 8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.01	0.86

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0045 LF 10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.60	0.91
26 05 19 16-0046 LF 12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.24	0.93
26 05 19 16-0047 LF 14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.91	0.95
26 05 19 16-0048 LF 16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.03	0.97
26 05 19 16-0049 LF 18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.23	1.00
26 05 19 16-0050 LF 20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.04	1.02
26 05 19 16-0051 LF 24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.12	1.04
26 05 19 16-0052 LF 30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.57	1.11
26 05 19 16-0053 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0054 LF 2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.81	0.59
26 05 19 16-0055 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.92	0.59
26 05 19 16-0056 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.14	0.59
26 05 19 16-0057 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.29	0.80
26 05 19 16-0058 LF 6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.63	0.82
26 05 19 16-0059 LF 7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.96	0.84
26 05 19 16-0060 LF 8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.38	0.86
26 05 19 16-0061 LF 9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.56	0.89
26 05 19 16-0062 LF 10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.06	0.91
26 05 19 16-0063 LF 12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.90	0.93
26 05 19 16-0064 LF 14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.34	0.95
26 05 19 16-0065 LF 16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.15	0.97
26 05 19 16-0066 LF 18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.26	1.00
26 05 19 16-0067 LF 20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.26	1.02
26 05 19 16-0068 LF 24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.18	1.04
26 05 19 16-0069 LF 26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.29	1.06
26 05 19 16-0070 LF 30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.32	1.11
26 05 19 16-0071 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0072 LF 2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.12	0.59
26 05 19 16-0073 LF 3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.25	0.59
26 05 19 16-0074 LF 4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.56	0.59
26 05 19 16-0075 LF 5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.26	0.80
26 05 19 16-0076 LF 6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.11	0.82
26 05 19 16-0077 LF 7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.39	0.84
26 05 19 16-0078 LF 8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.06	0.86
26 05 19 16-0079 LF 9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.52	0.89
26 05 19 16-0080 LF 10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.27	0.91
26 05 19 16-0081 LF 12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.00	0.93
26 05 19 16-0082 LF 14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.83	0.95
26 05 19 16-0083 LF 16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.61	0.97
26 05 19 16-0084 LF 20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.91	1.02
26 05 19 16-0085 LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.03	1.04
26 05 19 16-0086 LF 30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.60	1.11
26 05 19 16-0087 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0088 LF 2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.43	0.59
26 05 19 16-0089 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.67	0.59
26 05 19 16-0090 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.90	0.59
26 05 19 16-0091 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.88	0.80
26 05 19 16-0092 LF 6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.66	0.82
26 05 19 16-0093 LF 7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.44	0.84
26 05 19 16-0094 LF 8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.31	0.86
26 05 19 16-0095 LF 9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.92	0.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0096 LF 10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.96	0.91
26 05 19 16-0097 LF 12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.20	0.93
26 05 19 16-0098 LF 14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.35	0.95
26 05 19 16-0099 LF 16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.49	0.97
26 05 19 16-0100 LF 18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.05	1.00
26 05 19 16-0101 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.04	1.02
26 05 19 16-0102 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	17.07	1.04
26 05 19 16-0103 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	19.12	1.06
26 05 19 16-0104 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	19.78	1.09
26 05 19 16-0105 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	20.51	1.11
26 05 19 16-0106 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0107 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.80	0.74
26 05 19 16-0108 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.00	0.74
26 05 19 16-0109 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.21	0.74
26 05 19 16-0110 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.23	0.80
26 05 19 16-0111 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.91	0.82
26 05 19 16-0112 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.12	0.84
26 05 19 16-0113 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.45	0.91
26 05 19 16-0114 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.97	0.93
26 05 19 16-0115 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.26	0.97
26 05 19 16-0116 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	22.20	1.02
26 05 19 16-0117 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0118 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.58	0.89
26 05 19 16-0119 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.07	1.03
26 05 19 16-0120 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	8.26	1.03
26 05 19 16-0121 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0122 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.99	1.03
26 05 19 16-0123 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.64	1.18
26 05 19 16-0124 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	11.58	1.48
26 05 19 16-0125 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0126 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	12.75	1.48
26 05 19 16-0127 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	13.98	1.62
26 05 19 16-0128 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	16.86	1.77
26 05 19 16-0129 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0130 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.19	2.96
26 05 19 16-0131 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	24.41	3.70
26 05 19 16-0132 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	29.58	4.88
26 05 19 16-0133 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0014)		
26 05 19 16-0134 #18, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0133)		
26 05 19 16-0135 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.98	0.59
26 05 19 16-0136 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.17	0.59
26 05 19 16-0137 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.57	0.59
26 05 19 16-0138 #16, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0133)		
26 05 19 16-0139 LF 2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.10	0.59
26 05 19 16-0140 LF 3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.41	0.59

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0141 LF 4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.56	0.59
26 05 19 16-0142 #14, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0133)		
26 05 19 16-0143 LF 2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.88	0.59
26 05 19 16-0144 LF 3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	4.15	0.59
26 05 19 16-0145 LF 4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	5.30	0.74
26 05 19 16-0146 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0014)		
26 05 19 16-0147 #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0148 LF 2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.78	0.59
26 05 19 16-0149 LF 3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.32	0.59
26 05 19 16-0150 LF 4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.87	0.59
26 05 19 16-0151 #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0152 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.97	0.59
26 05 19 16-0153 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.52	0.59
26 05 19 16-0154 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.38	0.59
26 05 19 16-0155 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.73	0.74
26 05 19 16-0156 #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0157 LF 3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.64	0.59
26 05 19 16-0158 LF 4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.34	0.59
26 05 19 16-0159 LF 5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.85	0.74
26 05 19 16-0160 #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0161 LF 3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.31	0.59
26 05 19 16-0162 LF 4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.92	0.59
26 05 19 16-0163 LF 5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.49	0.74
26 05 19 16-0164 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0165 LF 3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.93	0.74
26 05 19 16-0166 LF 4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.48	0.74
26 05 19 16-0167 LF 5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	6.04	0.74
26 05 19 16-0168 Multi-Conductor Type SEOW Cord (26 05 19 16-0013) Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0169 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0168)		
26 05 19 16-0170 #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0171 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.13	0.59
26 05 19 16-0172 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.34	0.59
26 05 19 16-0173 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.52	0.74
26 05 19 16-0174 #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0175 LF 3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.77	0.59
26 05 19 16-0176 LF 4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.18	0.59
26 05 19 16-0177 LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.53	0.74
26 05 19 16-0178 #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0179 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.43	0.59
26 05 19 16-0180 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.96	0.59



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0181	LF	5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.97	0.74
26 05 19 16-0182		#10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord		
		<small>(26 05 19 16-0169)</small>		
26 05 19 16-0183	LF	3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.34	0.74
26 05 19 16-0184	LF	4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.97	0.74
26 05 19 16-0185	LF	5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.33	0.74
26 05 19 16-0186		Multi-Conductor Type W Cord <small>(26 05 19 16-0013)</small>		
		Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0187		2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0186)</small>		
26 05 19 16-0188		#8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0189	LF	3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.11	0.89
26 05 19 16-0190	LF	4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.57	1.03
26 05 19 16-0191	LF	5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.76	1.03
26 05 19 16-0192		#6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0193	LF	3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.57	1.03
26 05 19 16-0194	LF	4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.83	1.18
26 05 19 16-0195	LF	5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	9.73	1.48
26 05 19 16-0196		#4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0197	LF	3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.90	1.03
26 05 19 16-0198	LF	4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	10.51	1.18
26 05 19 16-0199	LF	5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	13.50	1.48
26 05 19 16-0200		Cord Grips, Cable Reels, Extension Cords, And Accessories <small>(26 05 19 16-0012)</small>		
26 05 19 16-0201		Cord Grips <small>(26 05 19 16-0200)</small>		
26 05 19 16-0202	EA	Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	93.17	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.89	
26 05 19 16-0203	EA	Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	93.56	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.89	
26 05 19 16-0204		Cable Reels <small>(26 05 19 16-0200)</small>		
		Note: Includes handling, mounting, electrical connections and installing cord.		
26 05 19 16-0205	EA	30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	733.05	73.95
26 05 19 16-0206	EA	50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	1,990.28	73.95
26 05 19 16-0207	EA	50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,493.31	73.95
26 05 19 16-0208		Extension Cords For Cable Reel <small>(26 05 19 16-0200)</small>		
26 05 19 16-0209	EA	100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord.....	207.22	
26 05 19 16-0210	EA	100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....	291.38	
26 05 19 16-0211		Plugs And Connector Bodies <small>(26 05 19 16-0200)</small>		
		Note: Up to 277 volt		
26 05 19 16-0212		NEMA Twist-Lock Plugs <small>(26 05 19 16-0211)</small>		
26 05 19 16-0213	EA	15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	95.33	
26 05 19 16-0214	EA	15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	96.97	
26 05 19 16-0215	EA	20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	90.05	
26 05 19 16-0216	EA	20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	95.12	
26 05 19 16-0217	EA	20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	118.89	
26 05 19 16-0218	EA	20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	125.33	
26 05 19 16-0219	EA	20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	131.64	
26 05 19 16-0220	EA	30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	119.85	
26 05 19 16-0221	EA	30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	135.33	
26 05 19 16-0222	EA	30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....	138.35	
26 05 19 16-0223	EA	30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	142.19	
26 05 19 16-0224		NEMA Twist-Lock Connector Bodies <small>(26 05 19 16-0211)</small>		
26 05 19 16-0225	EA	15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....	99.98	
26 05 19 16-0226	EA	15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	105.81	
26 05 19 16-0227	EA	20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....	93.54	
26 05 19 16-0228	EA	20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	119.85	
26 05 19 16-0229	EA	20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....	136.84	
26 05 19 16-0230	EA	20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	145.06	
26 05 19 16-0231	EA	20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	172.74	
26 05 19 16-0232	EA	30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....	165.75	

26 Electrical
26 05 Common Work Results for Electrical
26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0233	EA		30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....	200.42	
26 05 19 16-0234	EA		30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	209.60	
26 05 19 16-0235	EA		30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	199.60	
26 05 19 16-0236 Watertight Pin And Sleeve Plug (26 05 19 16-0211)					
26 05 19 16-0237	EA		20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....	288.34	44.37
26 05 19 16-0238	EA		20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....	291.24	44.37
26 05 19 16-0239	EA		20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....	313.72	44.37
26 05 19 16-0240	EA		20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....	315.82	48.81
26 05 19 16-0241	EA		20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....	311.46	48.81
26 05 19 16-0242	EA		20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....	312.76	48.81
26 05 19 16-0243	EA		30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....	435.08	54.58
26 05 19 16-0244	EA		30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....	424.22	54.58
26 05 19 16-0245	EA		30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....	470.87	54.58
26 05 19 16-0246	EA		30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....	464.90	59.90
26 05 19 16-0247	EA		30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....	446.05	59.90
26 05 19 16-0248	EA		30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....	459.02	59.90
26 05 19 16-0249	EA		60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....	590.02	70.99
26 05 19 16-0250	EA		60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....	600.35	70.99
26 05 19 16-0251	EA		60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....	575.83	70.99
26 05 19 16-0252	EA		60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....	655.10	78.98
26 05 19 16-0253	EA		60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....	639.01	78.98
26 05 19 16-0254	EA		60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....	645.97	78.98
26 05 19 16-0255	EA		100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....	806.53	88.74
26 05 19 16-0256	EA		100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....	846.47	88.74
26 05 19 16-0257	EA		100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....	829.31	97.62
26 05 19 16-0258	EA		100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....	815.67	97.62
26 05 19 16-0259	EA		100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....	823.04	97.62
26 05 19 16-0260 Watertight Pin And Sleeve Connector (26 05 19 16-0211)					
26 05 19 16-0261	EA		20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W).....	304.99	44.37
26 05 19 16-0262	EA		20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W).....	307.00	44.37
26 05 19 16-0263	EA		20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W).....	358.77	44.37
26 05 19 16-0264	EA		20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W).....	357.77	48.81
26 05 19 16-0265	EA		20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W).....	352.52	48.81
26 05 19 16-0266	EA		20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W).....	357.27	48.81
26 05 19 16-0267	EA		30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W).....	445.03	54.58
26 05 19 16-0268	EA		30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W).....	444.92	54.58
26 05 19 16-0269	EA		30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W).....	462.77	54.58
26 05 19 16-0270	EA		30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W).....	460.06	59.90
26 05 19 16-0271	EA		30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W).....	463.74	59.90
26 05 19 16-0272	EA		30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W).....	459.86	59.90
26 05 19 16-0273	EA		60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W).....	692.05	70.99
26 05 19 16-0274	EA		60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W).....	670.18	70.99
26 05 19 16-0275	EA		60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W).....	657.15	70.99
26 05 19 16-0276	EA		60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W).....	715.83	78.98
26 05 19 16-0277	EA		60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W).....	734.84	78.98
26 05 19 16-0278	EA		60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W).....	736.23	78.98
26 05 19 16-0279	EA		100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W).....	918.45	88.74
26 05 19 16-0280	EA		100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W).....	943.53	88.74
26 05 19 16-0281	EA		100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W).....	1,020.19	97.62
26 05 19 16-0282	EA		100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W).....	985.74	97.62
26 05 19 16-0283	EA		100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W).....	997.49	97.62
26 05 19 16-0284 Accessories (26 05 19 16-0200)					
26 05 19 16-0285	EA		1/2" Straight Steel Cord Connector.....	66.40	14.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>8.87</i>	
26 05 19 16-0286	EA		1/2" Straight Nylon Cord Connector.....	40.60	11.09
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>6.66</i>	
26 05 19 16-0287	EA		1/2" 90 Degree Steel Cord Connector.....	76.55	18.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>11.09</i>	
26 05 19 16-0288	EA		1/2" 90 Degree Nylon Cord Connector.....	49.37	14.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>8.87</i>	
26 05 19 16-0289	EA		1/2" Straight Steel Cord Connector With Strain Relief Mesh.....	75.64	18.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>11.09</i>	
26 05 19 16-0290	EA		1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	127.47	22.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>13.31</i>	
26 05 19 16-0291	EA		1/2" Straight Nylon Cord Connector With Strain Relief Mesh.....	48.66	14.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>8.87</i>	
26 05 19 16-0292	EA		1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	79.91	18.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>11.09</i>	
26 05 19 16-0293	EA		3/4" Straight Steel Cord Connector.....	68.98	14.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>8.87</i>	
26 05 19 16-0294	EA		3/4" Straight Nylon Cord Connector.....	41.90	11.09
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>6.66</i>	
26 05 19 16-0295	EA		3/4" 90 Degree Steel Cord Connector.....	84.65	18.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>11.09</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0296 EA 3/4" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.41 8.87	14.79
26 05 19 16-0297 EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.76 13.31	22.19
26 05 19 16-0298 EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.82 15.53	25.89
26 05 19 16-0299 EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.78 11.09	18.48
26 05 19 16-0300 EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.94 13.31	22.19
26 05 19 16-0301 EA 1" Straight Steel Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.61 8.87	14.79
26 05 19 16-0302 EA 1" Straight Nylon Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.21 6.66	11.09
26 05 19 16-0303 EA 1" 90 Degree Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.63 11.09	18.48
26 05 19 16-0304 EA 1" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.91 8.87	14.79
26 05 19 16-0305 EA 1" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.21 13.31	22.19
26 05 19 16-0306 EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.35 15.53	25.89
26 05 19 16-0307 EA 1" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.64 11.09	18.48
26 05 19 16-0308 EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.44 13.31	22.19
26 05 19 16-0309 600 Volt Wire <small>(26 05 19 16-0011)</small>		
26 05 19 16-0310 Single Solid Conductor, Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0311 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	812.53	327.98
26 05 19 16-0312 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,016.33	385.82
26 05 19 16-0313 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,256.27	471.78
26 05 19 16-0314 MLF #14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,037.30	327.98
26 05 19 16-0315 MLF #12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,252.45	385.82
26 05 19 16-0316 MLF #10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,500.50	471.78
26 05 19 16-0317 Power Cable, Stranded Conductor, Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0318 Power Cable, Stranded, Single Conductor, XHHW-2 <small>(26 05 19 16-0317)</small>		
26 05 19 16-0319 MLF #16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	838.12	270.28
26 05 19 16-0320 MLF #14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	990.42	324.33
26 05 19 16-0321 MLF #12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,215.21	378.40
26 05 19 16-0322 MLF #10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,488.93	432.45
26 05 19 16-0323 MLF #8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,977.76	540.56
26 05 19 16-0324 MLF #6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,657.28	648.68
26 05 19 16-0325 MLF #4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,624.07	810.85
26 05 19 16-0326 MLF #3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,280.66	918.96
26 05 19 16-0327 MLF #2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,057.72	1,027.07
26 05 19 16-0328 MLF #1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,245.29	1,135.18
26 05 19 16-0329 MLF 1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	7,481.45	1,297.35
26 05 19 16-0330 MLF 2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	8,945.24	1,459.52
26 05 19 16-0331 MLF 3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	10,684.80	1,621.69
26 05 19 16-0332 MLF 4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	12,775.65	1,783.86
26 05 19 16-0333 MLF 250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	13,549.05	1,946.03
26 05 19 16-0334 MLF 300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	16,030.24	2,108.20
26 05 19 16-0335 MLF 350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	17,104.42	2,270.36
26 05 19 16-0336 MLF 400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	19,113.38	2,432.53
26 05 19 16-0337 MLF 500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	22,092.81	2,594.71
26 05 19 16-0338 MLF 600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	25,411.58	2,810.93
26 05 19 16-0339 MLF 750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	38,425.14	3,135.26
26 05 19 16-0340 MLF 1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	54,066.05	3,675.83
26 05 19 16-0341 Power Cable, Stranded, Multi Conductor, XHHW-2 <small>(26 05 19 16-0317)</small>		
26 05 19 16-0342 MLF 2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	1,980.83	648.54
26 05 19 16-0343 MLF 3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,430.68	756.93
26 05 19 16-0344 MLF 4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,015.81	918.96
26 05 19 16-0345 MLF 6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,576.44	999.64
26 05 19 16-0346 MLF 7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,891.94	1,053.96
26 05 19 16-0347 MLF 9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,520.89	1,161.94
26 05 19 16-0348 MLF 10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,207.25	1,211.13
26 05 19 16-0349 MLF 12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,465.83	1,324.38
26 05 19 16-0350 MLF 14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,028.21	1,405.74
26 05 19 16-0351 MLF 24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,769.66	1,783.99
26 05 19 16-0352 MLF 37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,266.05	2,648.76
26 05 19 16-0353 MLF 2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,430.74	756.93
26 05 19 16-0354 MLF 3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,105.20	918.96
26 05 19 16-0355 MLF 4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,779.70	1,081.13
26 05 19 16-0356 MLF 2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,247.10	972.60

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0357	MLF 3 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,193.96 1,188.16
26 05 19 16-0358	MLF 4 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,415.81 1,513.85
26 05 19 16-0359	MLF 6 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,313.57 1,946.70
26 05 19 16-0360	MLF 9 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,886.98 2,486.72
26 05 19 16-0361	MLF 2 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,023.10 1,108.16
26 05 19 16-0362	MLF 3 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,122.44 1,297.35
26 05 19 16-0363	MLF 4 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,627.21 1,648.72
26 05 19 16-0364	MLF 2 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,179.56 1,243.30
26 05 19 16-0365	MLF 3 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,958.29 1,540.61
26 05 19 16-0366	MLF 4 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,892.57 1,900.08
26 05 19 16-0367	MLF 2 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,964.92 1,508.44
26 05 19 16-0368	MLF 3 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,104.28 1,725.34
26 05 19 16-0369	MLF 4 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	11,770.37 2,153.06
26 05 19 16-0370	MLF 2 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,573.49 1,837.37
26 05 19 16-0371	MLF 3 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	12,606.80 2,054.69
26 05 19 16-0372	MLF 4 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	16,717.20 2,702.81
26 05 19 16-0373	MLF 3 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	16,707.65 2,594.30
26 05 19 16-0374	MLF 4 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	21,734.31 3,242.03
26 05 19 16-0375	MLF 3 Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	19,742.75 2,811.47
26 05 19 16-0376	MLF 3 Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	23,994.34 3,242.03
26 05 19 16-0377	MLF 3 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	29,347.50 3,782.32
26 05 19 16-0378	MLF 4 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	38,679.72 4,863.04
26 05 19 16-0379	MLF 3 Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	35,768.55 4,328.16
26 05 19 16-0380	MLF 3 Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	38,209.36 4,863.04
26 05 19 16-0381	MLF 3 Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	47,799.57 5,405.64
26 05 19 16-0382	MLF 3 Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	61,670.80 5,941.06

26 05 19 16-0383 Undergroud Feeder And Branch Circuit Suitable, Single Stranded Copper

(26 05 19 16-0383)
Note: Direct bury.

26 05 19 16-0384	MLF #14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,328.81
26 05 19 16-0385	MLF #12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,566.87
26 05 19 16-0386	MLF #10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,002.00
26 05 19 16-0387	MLF #8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,659.68
26 05 19 16-0388	MLF #6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,819.91
26 05 19 16-0389	MLF #4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,071.10
26 05 19 16-0390	MLF #2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,459.61
26 05 19 16-0391	MLF #1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,404.82
26 05 19 16-0392	MLF 1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,619.51
26 05 19 16-0393	MLF 2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,177.77
26 05 19 16-0394	MLF 3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,211.49
26 05 19 16-0395	MLF 4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,485.10
26 05 19 16-0396	MLF 250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,088.24
26 05 19 16-0397	MLF 300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,440.61
26 05 19 16-0398	MLF 350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	28,519.46
26 05 19 16-0399	MLF 400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	32,144.72
26 05 19 16-0400	MLF 500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	38,322.06
26 05 19 16-0401	MLF 600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	45,434.52
26 05 19 16-0402	MLF 750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	73,450.29
26 05 19 16-0403	MLF #14 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	983.14
26 05 19 16-0404	MLF #12 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,176.60
26 05 19 16-0405	MLF #10 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,404.66
26 05 19 16-0406	MLF #8 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,724.98
26 05 19 16-0407	MLF #6 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,209.32
26 05 19 16-0408	MLF #4 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,927.58
26 05 19 16-0409	MLF #2 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,960.07
26 05 19 16-0410	MLF #1 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,669.49
26 05 19 16-0411	MLF 1/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,288.14
26 05 19 16-0412	MLF 2/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,959.50
26 05 19 16-0413	MLF 3/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,910.48
26 05 19 16-0414	MLF 4/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,053.42
26 05 19 16-0415	MLF 250 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,119.41
26 05 19 16-0416	MLF 300 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,242.05
26 05 19 16-0417	MLF 350 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,457.77
26 05 19 16-0418	MLF 400 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,714.01
26 05 19 16-0419	MLF 500 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,760.34
26 05 19 16-0420	MLF 750 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,443.78
26 05 19 16-0421	MLF #14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	824.55
26 05 19 16-0422	MLF #12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,023.80
26 05 19 16-0423	MLF #10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,265.88
26 05 19 16-0424	MLF #8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,773.11
26 05 19 16-0425	MLF #6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,407.22
26 05 19 16-0426	MLF #4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,175.74
26 05 19 16-0427	MLF #2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,530.36
26 05 19 16-0428	MLF #1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,391.57
26 05 19 16-0429	MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,271.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0430 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,114.50	
26 05 19 16-0431 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,431.27	
26 05 19 16-0432 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,038.73	
26 05 19 16-0433 MLF 250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,776.82	
26 05 19 16-0434 MLF 300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,587.27	
26 05 19 16-0435 MLF 350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,532.39	
26 05 19 16-0436 MLF 400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,409.57	
26 05 19 16-0437 MLF 500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,654.18	
26 05 19 16-0438 MLF 600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,814.52	
26 05 19 16-0439 MLF 750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	39,121.16	
26 05 19 16-0440 MLF #2 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,675.74	
26 05 19 16-0441 MLF 1/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,556.73	
26 05 19 16-0442 MLF 2/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,613.60	
26 05 19 16-0443 MLF 3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,049.74	
26 05 19 16-0444 MLF 4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,389.05	
26 05 19 16-0445 MLF 250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,432.63	
26 05 19 16-0446 MLF 350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,613.46	
26 05 19 16-0447 MLF 400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,404.05	
26 05 19 16-0448 MLF 500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,523.73	
26 05 19 16-0449 600 Volt, Armored Cable, Copper Conductors (26 05 19 16-0309)		
26 05 19 16-0450 ACTHH, Solid (26 05 19 16-0449)		
26 05 19 16-0451 MLF 1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	3,146.76	887.42
26 05 19 16-0452 MLF 1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	3,628.21	1,005.74
26 05 19 16-0453 MLF 1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	4,146.50	1,064.90
26 05 19 16-0454 MLF 2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,549.92	1,479.03
26 05 19 16-0455 MLF 2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	4,879.14	1,656.22
26 05 19 16-0456 MLF 2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	6,161.66	1,835.03
26 05 19 16-0457 MLF 2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	8,030.50	2,012.23
26 05 19 16-0458 MLF 3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,493.90	1,656.22
26 05 19 16-0459 MLF 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	5,761.52	1,835.03
26 05 19 16-0460 MLF 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	7,351.05	2,071.53
26 05 19 16-0461 MLF 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	9,522.59	2,247.83
26 05 19 16-0462 MLF 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	6,542.69	1,835.03
26 05 19 16-0463 MLF 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	7,173.01	2,071.53
26 05 19 16-0464 MLF 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	9,107.75	2,307.44
26 05 19 16-0465 MLF 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	11,784.24	2,485.80
26 05 19 16-0466 ACTHH, Stranded (26 05 19 16-0449)		
26 05 19 16-0467 MLF 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	8,327.70	2,131.14
26 05 19 16-0468 MLF 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	10,147.58	2,424.57
26 05 19 16-0469 MLF 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	9,819.30	2,366.45
26 05 19 16-0470 MLF 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	12,302.06	2,660.19
26 05 19 16-0471 MLF 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	15,551.66	2,958.06
26 05 19 16-0472 MLF 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	17,873.74	3,250.62
26 05 19 16-0473 MLF 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	20,474.47	3,546.86
26 05 19 16-0474 MLF 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	12,666.90	2,838.85
26 05 19 16-0475 MLF 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	15,324.38	3,133.48
26 05 19 16-0476 MLF 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	19,691.43	3,431.65
26 05 19 16-0477 MLF 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	21,578.81	3,725.53
26 05 19 16-0478 MLF 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	25,588.10	4,019.12
26 05 19 16-0479 HCFC, Solid (26 05 19 16-0449)		
26 05 19 16-0480 MLF 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	5,085.30	1,479.03
26 05 19 16-0481 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,569.59	1,661.84
26 05 19 16-0482 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	6,224.19	1,826.01
26 05 19 16-0483 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	6,159.58	1,661.84
26 05 19 16-0484 MLF 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	6,610.26	1,826.01
26 05 19 16-0485 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	8,633.79	2,083.21
26 05 19 16-0486 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	7,559.95	1,826.01
26 05 19 16-0487 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	8,263.42	2,083.21
26 05 19 16-0488 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	11,276.09	2,310.99
26 05 19 16-0489 MC, Solid Or Stranded, Galvanized Steel Armor (26 05 19 16-0449)		
26 05 19 16-0490 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,417.09	1,479.03
26 05 19 16-0491 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,937.15	1,661.84

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0492 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,873.46	1,826.01
26 05 19 16-0493 MLF 2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	7,374.30	1,951.28
26 05 19 16-0494 MLF 2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	9,052.97	2,068.58
26 05 19 16-0495 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,085.16	1,661.84
26 05 19 16-0496 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,719.97	1,826.01
26 05 19 16-0497 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	7,184.11	2,083.21
26 05 19 16-0498 MLF 3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	9,172.85	2,247.83
26 05 19 16-0499 MLF 3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	10,654.97	2,424.57
26 05 19 16-0500 MLF 3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	13,044.91	2,603.99
26 05 19 16-0501 MLF 3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	17,754.26	2,780.14
26 05 19 16-0502 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,860.03	1,826.01
26 05 19 16-0503 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	6,710.19	2,083.21
26 05 19 16-0504 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	9,845.72	2,310.99
26 05 19 16-0505 MLF 4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	13,148.14	2,545.71
26 05 19 16-0506 MLF 4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	15,934.33	2,723.78
26 05 19 16-0507 MLF 4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	20,785.21	2,900.08
26 05 19 16-0508 MLF 4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	26,619.37	3,074.91
26 05 19 16-0509 MC, Solid Or Stranded, Aluminum Armor <small>(26 05 19 16-0449)</small>		
26 05 19 16-0510 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	4,385.24	1,479.03
26 05 19 16-0511 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	4,854.56	1,661.84
26 05 19 16-0512 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,800.42	1,826.01
26 05 19 16-0513 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,218.18	1,661.84
26 05 19 16-0514 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,646.59	1,826.01
26 05 19 16-0515 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	7,126.08	2,083.21
26 05 19 16-0516 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	6,492.44	1,826.01
26 05 19 16-0517 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	7,168.54	2,083.21
26 05 19 16-0518 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	9,845.72	2,310.99
26 05 19 16-0519 FPLP Solid TFN Red Armored Cable <small>(26 05 19 16-0449)</small>		
Note: Color coded red.		
26 05 19 16-0520 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,446.54	1,124.07
26 05 19 16-0521 MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable	5,056.03	1,301.55
26 05 19 16-0522 MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable	6,232.59	1,479.03
26 05 19 16-0523 MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable	7,138.37	1,656.51
26 05 19 16-0524 MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,066.83	1,301.55
26 05 19 16-0525 MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,973.60	1,479.03
26 05 19 16-0526 MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable	7,449.36	1,656.51
26 05 19 16-0527 MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable	8,461.10	1,834.00
26 05 19 16-0528 FPLP Solid THHN Red Armored Cable <small>(26 05 19 16-0449)</small>		
Note: Color coded red.		
26 05 19 16-0529 MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable	5,637.10	1,479.03
26 05 19 16-0530 MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable	6,952.96	1,656.51
26 05 19 16-0531 MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable	9,154.69	1,834.00
26 05 19 16-0532 MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable	10,584.35	2,011.48
26 05 19 16-0533 MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable	7,056.95	1,656.51
26 05 19 16-0534 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable	8,584.71	1,834.00
26 05 19 16-0535 FPLP Twisted Shielded Pair Red Armored Cable <small>(26 05 19 16-0449)</small>		
Note: Color coded red.		
26 05 19 16-0536 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	4,799.71	1,124.07
26 05 19 16-0537 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	7,653.42	1,656.51
26 05 19 16-0538 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	5,882.07	1,301.55
26 05 19 16-0539 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	6,933.06	1,479.03
26 05 19 16-0540 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	9,583.41	1,834.00
26 05 19 16-0541 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	6,893.59	1,538.20
26 05 19 16-0542 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	8,483.90	1,774.84
26 05 19 16-0543 Armored Cable Connectors <small>(26 05 19 16-0449)</small>		
26 05 19 16-0544 EA 3/4" Armored Cable Connector	8.84	3.25
For Work In Restricted Working Space, Add	2.43	
For Elevated Installation >10' To 15', Add	0.81	
For Elevated Installation >15' To 20', Add	1.62	
For Elevated Installation >20' To 25', Add	2.03	
For Elevated Installation >25' To 30', Add	2.84	
For Elevated Installation >30' To 35', Add	3.24	
For Elevated Installation >35' To 40', Add	4.06	
For Elevated Installation >40', Add	4.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0545 EA 1" Armored Cable Connector.....	11.80	4.33
<i>For Work In Restricted Working Space, Add</i>	3.24	
<i>For Elevated Installation >10' To 15', Add</i>	1.08	
<i>For Elevated Installation >15' To 20', Add</i>	2.16	
<i>For Elevated Installation >20' To 25', Add</i>	2.70	
<i>For Elevated Installation >25' To 30', Add</i>	3.78	
<i>For Elevated Installation >30' To 35', Add</i>	4.32	
<i>For Elevated Installation >35' To 40', Add</i>	5.41	
<i>For Elevated Installation >40', Add</i>	5.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.24	
26 05 19 16-0546 EA 1-1/4" Armored Cable Connector.....	14.82	5.40
<i>For Work In Restricted Working Space, Add</i>	4.06	
<i>For Elevated Installation >10' To 15', Add</i>	1.35	
<i>For Elevated Installation >15' To 20', Add</i>	2.70	
<i>For Elevated Installation >20' To 25', Add</i>	3.38	
<i>For Elevated Installation >25' To 30', Add</i>	4.73	
<i>For Elevated Installation >30' To 35', Add</i>	5.41	
<i>For Elevated Installation >35' To 40', Add</i>	6.76	
<i>For Elevated Installation >40', Add</i>	7.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.06	
26 05 19 16-0547 600 Volt, Feeder Wire, Single Stranded Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0548 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,102.03	216.63
<i>For EPR Insulation, Add</i>	43.68	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	101.91	
26 05 19 16-0549 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,242.82	239.88
<i>For EPR Insulation, Add</i>	44.52	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	103.89	
26 05 19 16-0550 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,514.49	299.87
<i>For EPR Insulation, Add</i>	65.00	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	151.68	
26 05 19 16-0551 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,063.86	477.04
<i>For EPR Insulation, Add</i>	106.87	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	249.36	
26 05 19 16-0552 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,818.88	572.46
<i>For EPR Insulation, Add</i>	179.58	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	419.02	
26 05 19 16-0553 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,838.30	664.62
<i>For EPR Insulation, Add</i>	271.68	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	633.92	
26 05 19 16-0554 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,378.90	760.70
<i>For EPR Insulation, Add</i>	312.23	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	728.53	
26 05 19 16-0555 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,509.30	856.79
<i>For EPR Insulation, Add</i>	441.24	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	1,029.57	
26 05 19 16-0556 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,812.57	954.23
<i>For EPR Insulation, Add</i>	596.19	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	1,391.11	
26 05 19 16-0557 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,207.41	1,076.53
<i>For EPR Insulation, Add</i>	744.60	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	1,737.41	
26 05 19 16-0558 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	9,888.69	1,193.83
<i>For EPR Insulation, Add</i>	935.98	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	2,183.96	
26 05 19 16-0559 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	11,851.73	1,332.76
<i>For EPR Insulation, Add</i>	1,169.63	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	2,729.13	
26 05 19 16-0560 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	13,364.36	1,481.82
<i>For EPR Insulation, Add</i>	1,335.71	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	3,116.65	
26 05 19 16-0561 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,236.24	1,625.20
<i>For EPR Insulation, Add</i>	1,405.68	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	3,279.91	
26 05 19 16-0562 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	16,781.46	1,786.56
<i>For EPR Insulation, Add</i>	1,726.64	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	4,028.84	
26 05 19 16-0563 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,712.59	1,894.00
<i>For EPR Insulation, Add</i>	1,955.50	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	4,562.83	
26 05 19 16-0564 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	20,955.52	2,116.85
<i>For EPR Insulation, Add</i>	2,231.13	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	5,205.96	
26 05 19 16-0565 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	23,928.17	2,354.29
<i>For EPR Insulation, Add</i>	2,616.21	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	6,104.49	
26 05 19 16-0566 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	27,995.22	2,449.43
<i>For EPR Insulation, Add</i>	3,145.19	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	7,338.77	
26 05 19 16-0567 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	45,282.45	2,544.43
<i>For EPR Insulation, Add</i>	5,616.64	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	13,105.50	
26 05 19 16-0568 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	56,961.36	2,718.77
<i>For EPR Insulation, Add</i>	7,287.39	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	17,003.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0569 MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,883.71	486.23
26 05 19 16-0570 MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,342.82	540.56
26 05 19 16-0571 MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,934.87	649.22
26 05 19 16-0572 MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,477.17	756.51
26 05 19 16-0573 MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,120.93	810.04
26 05 19 16-0574 MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	638.84	270.28
26 05 19 16-0575 MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	796.67	297.31
26 05 19 16-0576 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	817.46	216.76
26 05 19 16-0577 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,013.66	258.39
26 05 19 16-0578 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,250.68	325.02
26 05 19 16-0579 MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,746.59	428.40
26 05 19 16-0580 MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,363.38	517.32
26 05 19 16-0581 MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,108.18	611.38
26 05 19 16-0582 MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,709.34	692.06
26 05 19 16-0583 MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,424.02	775.03
26 05 19 16-0584 MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,257.10	874.63
26 05 19 16-0585 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,114.81	957.74
26 05 19 16-0586 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,930.16	1,058.42
26 05 19 16-0587 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	8,197.10	1,119.51
26 05 19 16-0588 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	9,747.33	1,259.51
26 05 19 16-0589 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	11,421.95	1,339.92
26 05 19 16-0590 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	13,165.49	1,517.50
26 05 19 16-0591 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	15,037.31	1,679.39
26 05 19 16-0592 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	16,844.42	1,725.34
26 05 19 16-0593 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	19,953.80	1,825.35
26 05 19 16-0594 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	24,679.38	2,148.06
26 05 19 16-0595 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	37,605.72	2,544.43
26 05 19 16-0596 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	45,027.23	3,072.02
26 05 19 16-0597 MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,860.33	649.22
26 05 19 16-0598 MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,204.74	756.51
26 05 19 16-0599 MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,704.89	865.58
26 05 19 16-0600 MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,706.35	972.60
26 05 19 16-0601 MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,317.72	1,081.13
26 05 19 16-0602 MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,646.02	1,188.16

26 05 19 16-0603 600 Volt, Feeder Wire, Single Stranded Aluminum (26 05 19 16-0309)

26 05 19 16-0604 MLF #6 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,408.72	388.35
26 05 19 16-0605 MLF #4 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,668.62	451.57
26 05 19 16-0606 MLF #2 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,181.67	579.66
26 05 19 16-0607 MLF #1 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,691.02	647.29
26 05 19 16-0608 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,110.71	729.26
26 05 19 16-0609 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,533.73	804.91
26 05 19 16-0610 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,161.08	908.39
26 05 19 16-0611 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,605.75	1,002.19
26 05 19 16-0612 MLF 250 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,318.36	1,101.73
26 05 19 16-0613 MLF 300 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,536.88	1,198.11
26 05 19 16-0614 MLF 350 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,836.39	1,294.47
26 05 19 16-0615 MLF 400 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,808.66	1,439.80
26 05 19 16-0616 MLF 500 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,605.44	1,585.08
26 05 19 16-0617 MLF 600 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,498.45	1,846.45
26 05 19 16-0618 MLF 700 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,851.26	2,024.22
26 05 19 16-0619 MLF 750 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	12,107.96	2,099.26
26 05 19 16-0620 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	16,579.43	2,546.52
26 05 19 16-0621 MLF #8 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,703.83	479.89
26 05 19 16-0622 MLF #6 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,916.26	540.56
26 05 19 16-0623 MLF #4 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,358.75	665.02
26 05 19 16-0624 MLF #2 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,983.15	815.17
26 05 19 16-0625 MLF #1 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,783.18	959.64
26 05 19 16-0626 MLF 1/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,364.92	1,081.53
26 05 19 16-0627 MLF 2/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,966.06	1,201.27
26 05 19 16-0628 MLF 3/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,714.86	1,310.60
26 05 19 16-0629 MLF 4/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,196.54	1,394.79
26 05 19 16-0630 MLF 250 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,038.69	1,492.37
26 05 19 16-0631 MLF 300 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,567.44	1,599.39
26 05 19 16-0632 MLF 350 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,963.80	1,727.78
26 05 19 16-0633 MLF 400 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,140.44	1,884.13
26 05 19 16-0634 MLF 500 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,395.11	2,162.25
26 05 19 16-0635 MLF 600 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	13,277.73	2,275.51
26 05 19 16-0636 MLF 700 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	14,758.17	2,399.02
26 05 19 16-0637 MLF 750 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	15,224.02	2,549.57
26 05 19 16-0638 MLF 1,000 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	22,108.41	3,573.13
26 05 19 16-0639 MLF #6 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,967.51	540.56
26 05 19 16-0640 MLF #4 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,454.20	664.89
26 05 19 16-0641 MLF #2 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,061.65	816.25
26 05 19 16-0642 MLF #1 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,846.47	954.23
26 05 19 16-0643 MLF 1/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,345.93	1,076.53
26 05 19 16-0644 MLF 2/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,920.94	1,193.83
26 05 19 16-0645 MLF 3/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,705.75	1,310.60
26 05 19 16-0646 MLF 4/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,233.06	1,394.79
26 05 19 16-0647 MLF 250 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,073.11	1,491.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0648 MLF 300 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,580.26	1,601.42
26 05 19 16-0649 MLF 350 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,078.00	1,730.07
26 05 19 16-0650 MLF 400 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,050.93	1,879.81
26 05 19 16-0651 MLF 500 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,566.61	2,162.25
26 05 19 16-0652 MLF 600 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	13,242.69	2,269.42
26 05 19 16-0653 MLF 700 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	14,693.45	2,399.02
26 05 19 16-0654 MLF 750 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	15,261.76	2,541.87
26 05 19 16-0655 Non-Metallic Sheathed Cable <small>(26 05 19 16-0309)</small>		
26 05 19 16-0656 Indoor Installation <small>(26 05 19 16-0655)</small>		
<small>Note: For NM, NM-B, NMC-B and NMS-B.</small>		
26 05 19 16-0657 MLF #14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,906.73	1,026.94
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>385.09</i>	
26 05 19 16-0658 MLF #14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,573.75	1,243.30
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>466.26</i>	
26 05 19 16-0659 MLF #14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,524.67	1,375.73
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>515.90</i>	
26 05 19 16-0660 MLF #12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,356.33	1,167.62
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>415.56</i>	
26 05 19 16-0661 MLF #12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,350.12	1,297.08
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>486.42</i>	
26 05 19 16-0662 MLF #12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,334.28	1,448.71
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>543.27</i>	
26 05 19 16-0663 MLF #10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,052.91	1,297.76
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>486.67</i>	
26 05 19 16-0664 MLF #10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,548.55	1,513.85
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>567.69</i>	
26 05 19 16-0665 MLF #10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,493.99	1,729.80
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>648.68</i>	
26 05 19 16-0666 MLF #8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,067.66	1,554.12
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>553.40</i>	
26 05 19 16-0667 MLF #8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	7,586.99	1,878.46
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>668.95</i>	
26 05 19 16-0668 MLF #6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	7,536.63	1,770.34
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>628.40</i>	
26 05 19 16-0669 MLF #6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	9,724.28	2,135.22
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>760.17</i>	
26 05 19 16-0670 MLF #4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	18,525.60	2,351.45
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>836.18</i>	
26 05 19 16-0671 MLF #2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	21,340.69	2,554.17
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>912.20</i>	
26 05 19 16-0672 Direct Burial Cable <small>(26 05 19 16-0655)</small>		
<small>Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.</small>		
26 05 19 16-0673 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,022.13	
26 05 19 16-0674 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,925.78	
26 05 19 16-0675 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,824.50	
26 05 19 16-0676 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,852.45	
26 05 19 16-0677 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,133.31	
26 05 19 16-0678 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	5,857.98	
26 05 19 16-0679 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	6,261.20	
26 05 19 16-0680 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	7,980.11	
26 05 19 16-0681 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	7,856.93	
26 05 19 16-0682 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	10,269.93	
26 05 19 16-0683 SEU Cable Copper, 3 Conductor <small>(26 05 19 16-0655)</small>		
26 05 19 16-0684 MLF 12-12-12 Cable SEU Copper	4,066.11	1,301.99
26 05 19 16-0685 MLF 10-10-10 Cable SEU Copper	5,147.73	1,479.03
26 05 19 16-0686 MLF 8-8-8 Cable SEU Copper	6,458.56	1,656.22
26 05 19 16-0687 MLF 6-6-8 Cable SEU Copper	7,865.25	1,775.58
26 05 19 16-0688 MLF 6-6-6 Cable SEU Copper.....	8,482.76	1,835.03
26 05 19 16-0689 MLF 4-4-6 Cable SEU Copper	10,406.78	2,012.23
26 05 19 16-0690 MLF 4-4-4 Cable SEU Copper	11,242.00	2,071.53
26 05 19 16-0691 MLF 3-3-5 Cable SEU Copper	13,138.23	2,247.83
26 05 19 16-0692 MLF 3-3-3 Cable SEU Copper.....	13,961.34	2,366.45
26 05 19 16-0693 MLF 2-2-4 Cable SEU Copper	14,927.13	2,485.80
26 05 19 16-0694 MLF 2-2-2 Cable SEU Copper	15,975.32	2,603.99
26 05 19 16-0695 MLF 1-1-1 Cable SEU Copper	19,623.89	2,958.06
26 05 19 16-0696 MLF 1/0-1/0-1/0 Cable SEU Copper	23,415.90	3,316.29
26 05 19 16-0697 MLF 2/0-2/0-2/0 Cable SEU Copper	28,275.98	3,735.00
26 05 19 16-0698 MLF 3/0-3/0-3/0 Cable SEU Copper	34,122.88	4,154.60
26 05 19 16-0699 MLF 4/0-4/0-4/0 Cable SEU Copper	38,136.18	4,636.47

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0700 SEU Cable Aluminum, 3 Conductor (26 05 19 16-0655)		
26 05 19 16-0701 MLF 8-8-8 Cable SEU Aluminum.....	5,241.68	1,661.84
26 05 19 16-0702 MLF 6-6-6 Cable SEU Aluminum.....	5,962.57	1,826.01
26 05 19 16-0703 MLF 4-4-6 Cable SEU Aluminum.....	6,686.59	1,998.76
26 05 19 16-0704 MLF 4-4-4 Cable SEU Aluminum.....	6,999.81	2,083.21
26 05 19 16-0705 MLF 2-2-4 Cable SEU Aluminum.....	8,370.00	2,465.11
26 05 19 16-0706 MLF 2-2-2 Cable SEU Aluminum.....	8,880.95	2,594.81
26 05 19 16-0707 MLF 1-1-1 Cable SEU Aluminum.....	10,639.34	2,958.06
26 05 19 16-0708 MLF 1/0-1/0-2 Cable SEU Aluminum.....	11,259.15	3,113.80
26 05 19 16-0709 MLF 1/0-1/0-1/0 Cable SEU Aluminum.....	13,595.82	3,286.70
26 05 19 16-0710 MLF 2/0-2/0-1 Cable SEU Aluminum.....	12,713.32	3,521.57
26 05 19 16-0711 MLF 2/0-2/0-2/0 Cable SEU Aluminum.....	13,426.33	3,697.58
26 05 19 16-0712 MLF 3/0-3/0-1/0 Cable SEU Aluminum.....	14,598.25	3,871.80
26 05 19 16-0713 MLF 3/0-3/0-3/0 Cable SEU Aluminum.....	15,611.70	4,108.45
26 05 19 16-0714 MLF 4/0-4/0-2/0 Cable SEU Aluminum.....	16,500.82	4,441.54
26 05 19 16-0715 MLF 4/0-4/0-4/0 Cable SEU Aluminum.....	17,414.87	4,621.97
26 05 19 16-0716 SER Cable Copper, 4 Conductor (26 05 19 16-0655)		
26 05 19 16-0717 MLF 6-6-6-6 Cable SER Copper.....	12,006.22	2,131.14
26 05 19 16-0718 MLF 4-4-4-6 Cable SER Copper.....	13,159.86	2,307.44
26 05 19 16-0719 MLF 3-3-3-5 Cable SER Copper.....	16,259.38	2,603.99
26 05 19 16-0720 MLF 2-2-2-4 Cable SER Copper.....	18,586.92	2,838.85
26 05 19 16-0721 MLF 1-1-1-3 Cable SER Copper.....	21,652.61	3,250.62
26 05 19 16-0722 MLF 1/0-1/0-1/0-2 Cable SER Copper.....	26,327.26	3,725.53
26 05 19 16-0723 MLF 2/0-2/0-2/0-1 Cable SER Copper.....	32,861.65	4,019.12
26 05 19 16-0724 MLF 3/0-3/0-3/0-1/0 Cable SER Copper.....	37,928.86	4,495.51
26 05 19 16-0725 SER Cable Aluminum, 4 Conductor (26 05 19 16-0655)		
26 05 19 16-0726 MLF 8-8-8-8 Cable SER Aluminum.....	7,379.88	1,989.15
26 05 19 16-0727 MLF 6-6-6-6 Cable SER Aluminum.....	8,086.30	2,131.14
26 05 19 16-0728 MLF 4-4-4-6 Cable SER Aluminum.....	9,136.48	2,307.44
26 05 19 16-0729 MLF 2-2-2-4 Cable SER Aluminum.....	11,582.66	2,838.85
26 05 19 16-0730 MLF 1-1-1-3 Cable SER Aluminum.....	14,126.22	3,250.62
26 05 19 16-0731 MLF 1/0-1/0-1/0-2 Cable SER Aluminum.....	15,900.94	3,725.53
26 05 19 16-0732 MLF 2/0-2/0-2/0-1 Cable SER Aluminum.....	17,953.33	4,019.12
26 05 19 16-0733 MLF 3/0-3/0-3/0-1/0 Cable SER Aluminum.....	20,526.63	4,495.51
26 05 19 16-0734 MLF 4/0-4/0-4/0-2/0 Cable SER Aluminum.....	23,413.96	5,009.33
26 05 19 16-0735 Control Tray Cable, Low Voltage (26 05 19 16-0011)		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0736 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,291.32	655.56
For Work In Restricted Working Space, Add	327.78	
26 05 19 16-0737 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,477.69	733.33
For Work In Restricted Working Space, Add	366.66	
26 05 19 16-0738 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,529.74	733.28
For Work In Restricted Working Space, Add	366.66	
26 05 19 16-0739 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,916.13	919.74
For Work In Restricted Working Space, Add	459.87	
26 05 19 16-0740 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,393.15	1,120.79
For Work In Restricted Working Space, Add	560.40	
26 05 19 16-0741 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,707.05	1,232.48
For Work In Restricted Working Space, Add	616.24	
26 05 19 16-0742 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,185.64	1,400.41
For Work In Restricted Working Space, Add	700.21	
26 05 19 16-0743 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,997.78	1,711.69
For Work In Restricted Working Space, Add	855.85	
26 05 19 16-0744 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,522.20	1,867.38
For Work In Restricted Working Space, Add	933.69	
26 05 19 16-0745 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable.....	5,206.17	1,925.76
For Work In Restricted Working Space, Add	962.88	
26 05 19 16-0746 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable.....	6,408.35	2,405.78
For Work In Restricted Working Space, Add	1,202.89	
26 05 19 16-0747 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable.....	7,647.74	2,811.61
For Work In Restricted Working Space, Add	1,405.80	
26 05 19 16-0748 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,398.44	690.57
For Work In Restricted Working Space, Add	345.02	
26 05 19 16-0749 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,605.90	771.93
For Work In Restricted Working Space, Add	385.96	
26 05 19 16-0750 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,865.55	888.69
For Work In Restricted Working Space, Add	444.34	
26 05 19 16-0751 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,092.61	968.14
For Work In Restricted Working Space, Add	484.07	
26 05 19 16-0752 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,622.75	1,179.78
For Work In Restricted Working Space, Add	589.89	
26 05 19 16-0753 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,978.38	1,297.35
For Work In Restricted Working Space, Add	648.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0754 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,521.38 737.06	1,474.12
26 05 19 16-0755 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,434.02 900.85	1,801.70
26 05 19 16-0756 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,038.19 982.75	1,965.49
26 05 19 16-0757 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,874.23 1,013.56	2,027.11
26 05 19 16-0758 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,218.85 1,266.14	2,532.27
26 05 19 16-0759 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,634.80 1,479.79	2,959.59
26 05 19 16-0760 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,503.01 360.42	720.84
26 05 19 16-0761 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,771.30 405.42	810.85
26 05 19 16-0762 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,065.09 463.40	926.80
26 05 19 16-0763 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,302.29 499.07	998.15
26 05 19 16-0764 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,015.08 611.78	1,223.57
26 05 19 16-0765 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,447.43 675.84	1,351.41
26 05 19 16-0766 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,157.71 754.09	1,508.17
26 05 19 16-0767 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,966.28 900.85	1,801.43
26 05 19 16-0768 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,935.32 1,046.40	2,093.34
26 05 19 16-0769 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,320.77 1,223.97	2,447.40
26 05 19 16-0770 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,456.23 1,367.49	2,734.98
26 05 19 16-0771 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,140.07 1,598.18	3,196.35
26 05 19 16-0772 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,718.26 385.96	771.93
26 05 19 16-0773 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,020.34 426.91	854.09
26 05 19 16-0774 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,430.39 491.37	982.75
26 05 19 16-0775 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,719.13 523.00	1,045.99
26 05 19 16-0776 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,521.49 623.54	1,247.08
26 05 19 16-0777 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,313.86 737.06	1,474.12
26 05 19 16-0778 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,184.65 831.52	1,663.04
26 05 19 16-0779 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,136.87 953.96	1,907.92
26 05 19 16-0780 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,211.75 1,081.26	2,162.52
26 05 19 16-0781 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	9,120.97 1,263.71	2,527.41
26 05 19 16-0782 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,575.16 1,476.95	2,953.91
26 05 19 16-0783 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,732.87 1,726.29	3,452.57
26 05 19 16-0784 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,996.04 405.42	810.85
26 05 19 16-0785 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,433.29 444.34	889.23
26 05 19 16-0786 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,931.21 506.78	1,013.56
26 05 19 16-0787 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,370.15 549.75	1,099.51
26 05 19 16-0788 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,511.94 690.03	1,380.06
26 05 19 16-0789 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,306.71 772.33	1,544.66
26 05 19 16-0790 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,184.56 900.85	1,801.70
26 05 19 16-0791 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,278.03 1,030.18	2,060.36
26 05 19 16-0792 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,581.86 1,167.62	2,335.23
26 05 19 16-0793 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,930.06 1,364.66	2,729.31
26 05 19 16-0794 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,664.01 1,594.93	3,189.87
26 05 19 16-0795 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	15,287.28 1,864.54	3,729.08

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0796 ACSR (Aluminum Conductor Steel Reinforced) <small>(26 05 19 16-0011)</small> Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0797 ACSR Cable <small>(26 05 19 16-0796)</small>		
26 05 19 16-0798 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,081.91	668.47
26 05 19 16-0799 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	2,214.35	694.11
26 05 19 16-0800 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,396.65	720.83
26 05 19 16-0801 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	2,529.66	746.93
26 05 19 16-0802 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,827.19	772.26
26 05 19 16-0803 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,297.85	875.43
26 05 19 16-0804 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,819.88	976.29
26 05 19 16-0805 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	4,400.25	1,078.54
26 05 19 16-0806 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial)	5,135.61	1,386.06
26 05 19 16-0807 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	5,839.56	1,589.93
26 05 19 16-0808 All Aluminum Conductors <small>(26 05 19 16-0796)</small>		
26 05 19 16-0809 MLF 795.0 ACSR Conductor Aluminum	40,570.75	13,052.35
26 05 19 16-0810 Single Conductor Installed On Poles <small>(26 05 19 16-0011)</small>		
26 05 19 16-0811 Bare Stranded Conductor <small>(26 05 19 16-0810)</small>		
26 05 19 16-0812 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,662.62	566.38
26 05 19 16-0813 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,927.32	617.35
26 05 19 16-0814 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	2,193.67	668.94
26 05 19 16-0815 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	2,643.32	720.83
26 05 19 16-0816 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	3,167.77	772.88
26 05 19 16-0817 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	4,456.44	927.02
26 05 19 16-0818 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	5,105.20	1,029.74
26 05 19 16-0819 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	5,806.04	1,130.60
26 05 19 16-0820 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	7,708.15	1,340.95
26 05 19 16-0821 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	9,315.55	1,541.75
26 05 19 16-0822 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	10,040.01	1,747.33
26 05 19 16-0823 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	12,640.53	2,059.32
26 05 19 16-0824 MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	12,957.76	2,167.74
26 05 19 16-0825 MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	15,982.79	2,270.15
26 05 19 16-0826 MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	17,597.43	2,363.28
26 05 19 16-0827 MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	20,385.06	2,464.14
26 05 19 16-0828 Insulated Stranded Conductor <small>(26 05 19 16-0810)</small>		
26 05 19 16-0829 MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	1,777.04	566.38
26 05 19 16-0830 MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	2,074.95	617.35
26 05 19 16-0831 MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	2,485.11	668.94
26 05 19 16-0832 MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	2,698.49	720.83
26 05 19 16-0833 MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	3,251.93	772.88
26 05 19 16-0834 MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	4,334.89	927.02
26 05 19 16-0835 MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	5,093.07	1,029.74
26 05 19 16-0836 MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	5,975.28	1,130.60
26 05 19 16-0837 MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	7,188.43	1,340.95
26 05 19 16-0838 MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	8,591.12	1,541.75
26 05 19 16-0839 MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	10,096.52	1,747.33
26 05 19 16-0840 MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	12,294.75	2,059.32
26 05 19 16-0841 MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	13,873.03	2,167.74
26 05 19 16-0842 MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	15,166.33	2,270.15
26 05 19 16-0843 MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	16,920.48	2,363.28
26 05 19 16-0844 MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	18,945.20	2,464.14
26 05 19 16-0845 Bare Solid Conductor <small>(26 05 19 16-0810)</small>		
26 05 19 16-0846 MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	1,662.62	566.38
26 05 19 16-0847 MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,193.67	668.94
26 05 19 16-0848 MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,643.32	720.83
26 05 19 16-0849 MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	3,132.99	772.88
26 05 23 Control-Voltage Electrical Power Cables <small>(26 05)</small>		
26 05 23 00-0001 Cable For HVAC System Controls <small>(26 05 23)</small>		
26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volt <small>(26 05 23 00-0001)</small> Note: For surface or conduit installation.		
26 05 23 00-0003 MLF #20/2 Conductor, Low Volt Thermostat Cable	585.51	172.31
26 05 23 00-0004 MLF #20/3 Conductor, Low Volt Thermostat Cable	668.38	181.50
26 05 23 00-0005 MLF #20/4 Conductor, Low Volt Thermostat Cable	724.41	191.90
26 05 23 00-0006 MLF #20/5 Conductor, Low Volt Thermostat Cable	867.95	200.01
26 05 23 00-0007 MLF #20/6 Conductor, Low Volt Thermostat Cable	909.90	209.47
26 05 23 00-0008 MLF #20/7 Conductor, Low Volt Thermostat Cable	1,001.23	218.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 23 00-0009 MLF #20/8 Conductor, Low Volt Thermostat Cable	1,080.54	226.90
26 05 23 00-0010 MLF #20/9 Conductor, Low Volt Thermostat Cable	1,173.12	235.95
26 05 23 00-0011 MLF #20/10 Conductor, Low Volt Thermostat Cable	1,262.07	243.04
26 05 23 00-0012 MLF #18/2 Conductor, Low Volt Thermostat Cable	635.84	172.31
26 05 23 00-0013 MLF #18/3 Conductor, Low Volt Thermostat Cable	758.16	181.50
26 05 23 00-0014 MLF #18/4 Conductor, Low Volt Thermostat Cable	866.84	191.90
26 05 23 00-0015 MLF #18/5 Conductor, Low Volt Thermostat Cable	926.75	200.01
26 05 23 00-0016 MLF #18/6 Conductor, Low Volt Thermostat Cable	1,028.01	209.47
26 05 23 00-0017 MLF #18/7 Conductor, Low Volt Thermostat Cable	1,055.46	218.18
26 05 23 00-0018 MLF #18/8 Conductor, Low Volt Thermostat Cable	1,163.30	226.90
26 05 23 00-0019 MLF #18/9 Conductor, Low Volt Thermostat Cable	1,371.71	235.95
26 05 23 00-0020 MLF #18/10 Conductor, Low Volt Thermostat Cable	1,507.00	243.04

26 05 26 Grounding and Bonding for Electrical Systems (26 05)

26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)

26 05 26 00-0002 Single Conductor (26 05 26 00-0001)

26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0004 MLF 12 AWG Copper Bare Single Stranded Conductor	695.05	262.88
26 05 26 00-0005 MLF 10 AWG Copper Bare Single Stranded Conductor	913.57	262.88
26 05 26 00-0006 MLF 8 AWG Copper Bare Single Stranded Conductor	1,133.15	316.66
26 05 26 00-0007 MLF 6 AWG Copper Bare Single Stranded Conductor	1,548.85	316.66
26 05 26 00-0008 MLF 4 AWG Copper Bare Single Stranded Conductor	2,071.17	382.37
26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor	3,242.91	382.37
26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor	3,749.41	460.05
26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor	4,396.79	460.05
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor	6,148.12	579.54
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor	7,573.21	579.54
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor	8,042.99	770.74
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor	10,313.74	770.74
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor	10,352.81	890.23
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor	13,928.28	890.23
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor	18,997.87	1,099.34

26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor	1,288.07	358.48
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor	1,375.41	358.48
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor	1,760.40	358.48
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor	2,001.20	621.36
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor	2,701.37	621.36
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor	3,809.81	621.36
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor	4,602.52	1,087.39
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor	5,613.04	1,087.39
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor	6,575.49	1,087.39
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor	7,827.74	1,087.39
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor	9,228.20	1,421.97
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor	11,151.96	1,421.97
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor	12,984.98	1,421.97
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor	15,212.65	2,210.63
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor	19,848.49	2,210.63

26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)

26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor	695.05	262.88
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor	913.57	262.88
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor	1,133.15	316.66
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor	1,548.85	316.66
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor	2,071.17	382.37
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor	3,242.91	382.37
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor	4,396.79	460.05
26 05 26 00-0043 MLF 4/0 AWG Copper Bare Single Solid Conductor	8,042.99	609.41

26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0045 MLF 8 AWG Aluminum Bare Single Stranded Conductor	834.70	316.66
26 05 26 00-0046 MLF 6 AWG Aluminum Bare Single Stranded Conductor	921.95	316.66
26 05 26 00-0047 MLF 4 AWG Aluminum Bare Single Stranded Conductor	1,057.51	382.37
26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor	1,335.81	382.37
26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor	1,555.81	460.05
26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor	1,782.25	460.05
26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor	2,039.12	579.54
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor	2,354.87	579.54
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor	2,799.35	770.74
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor	3,148.93	770.74
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor	3,779.54	890.23
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor	4,313.94	890.23
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor	5,069.28	1,099.34

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0058 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor	834.70	316.66
26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor	921.95	316.66
26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor	1,057.51	382.37
26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor	1,335.81	382.37
26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor	1,507.58	609.41
26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor	1,782.25	609.41
26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor	1,919.66	579.54
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor	2,114.33	579.54
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor	2,799.35	770.74
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor	3,148.93	770.74
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor	3,779.54	890.23
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor	4,313.94	890.23
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor	5,069.28	1,099.34
26 05 26 00-0072 Aluminum Smooth Woven Conductors (26 05 26 00-0002)		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.34	1.02
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.70	1.12
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.37	1.28
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.40	1.31
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.62	1.37
26 05 26 00-0078 Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001)		
Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0079 EA 100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	150.50	36.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 05 26 00-0080 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	251.40	44.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 05 26 00-0081 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	316.53	44.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 05 26 00-0082 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	380.76	44.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 05 26 00-0083 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	336.65	48.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.28	
26 05 26 00-0084 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	430.34	48.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.28	
26 05 26 00-0085 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	511.74	48.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.28	
26 05 26 00-0086 EA 600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	433.43	61.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.61	
26 05 26 00-0087 EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	521.49	73.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.37	
26 05 26 00-0088 Bonding Jumper For Metallic Conduit (26 05 26 00-0001)		
26 05 26 00-0089 EA 1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit.....	212.49	81.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.22	
26 05 26 00-0090 EA 1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit.....	261.74	81.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.89	
26 05 26 00-0091 EA 2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit.....	372.21	125.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.23	
26 05 26 00-0092 EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit.....	538.20	125.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.17	
26 05 26 00-0093 Ground Rods (26 05 26)		
26 05 26 00-0094 Copper-Clad Ground Rods (26 05 26 00-0093)		
26 05 26 00-0095 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods.....	119.22	110.93
26 05 26 00-0096 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods.....	123.35	110.93
26 05 26 00-0097 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods.....	139.99	110.93
26 05 26 00-0098 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods.....	139.80	110.93
26 05 26 00-0099 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods.....	144.96	110.93
26 05 26 00-0100 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods.....	165.77	110.93
26 05 26 00-0101 Copper Grounding Shaft (26 05 26 00-0093)		
26 05 26 00-0102 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	384.88	110.93
26 05 26 00-0103 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	476.69	110.93
26 05 26 00-0104 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	728.46	110.93
26 05 26 00-0105 Ground Access Wells (26 05 26 00-0093)		
26 05 26 00-0106 Precast Ground Access Wells (26 05 26 00-0105)		
26 05 26 00-0107 EA 8" Diameter x 24" Deep Precast Ground Access Well.....	275.44	
Note: With cast iron grate.		



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 26 00-0108	EA 10" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	285.47	
	26 05 26 00-0109	EA 12" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	832.64	
	26 05 26 00-0110	EA 18" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	842.66	
26 05 26 00-0111		Polyvinyl Chloride (PVC) Ground Access Well <small>(26 05 26 00-0105)</small>		
	26 05 26 00-0112	EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	638.93	
	26 05 26 00-0113	EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	753.94	
	26 05 26 00-0114	EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	1,418.95	
	26 05 26 00-0115	EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	609.74	
	26 05 26 00-0116	EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	718.11	
	26 05 26 00-0117	EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	1,359.81	
	26 05 26 00-0118	EA 8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	333.50	
	26 05 26 00-0119	EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	356.56	
	26 05 26 00-0120	EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	377.13	
	26 05 26 00-0121	EA 8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	251.84	
	26 05 26 00-0122	EA 10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	380.10	
	26 05 26 00-0123	EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with flat steel cover.	684.00	
	26 05 26 00-0124	EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with flat steel cover.	915.30	
	26 05 26 00-0125	EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with plastic cover.	545.71	
	26 05 26 00-0126	EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with plastic cover.	802.27	
	26 05 26 00-0127	EA 10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	855.22	
	26 05 26 00-0128	EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	1,041.80	
	26 05 26 00-0129	EA 12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	450.97	
	26 05 26 00-0130	EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	803.32	
	26 05 26 00-0131	EA 12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	865.74	
26 05 26 00-0132		Polymer Concrete Ground Access Well <small>(26 05 26 00-0105)</small>		
	26 05 26 00-0133	EA 12" x 12" x 12" Polymer Concrete Ground Access Well	524.99	
	26 05 26 00-0134	EA 12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well	576.08	
	26 05 26 00-0135	EA 12" x 12" x 18" Polymer Concrete Ground Access Well	578.59	
	26 05 26 00-0136	EA 12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well	634.81	
	26 05 26 00-0137	EA 12" x 12" x 24" Polymer Concrete Ground Access Well	634.24	
	26 05 26 00-0138	EA 12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well	696.08	
	26 05 26 00-0139	EA 13" x 24" x 18" Polymer Concrete Ground Access Well	846.82	
	26 05 26 00-0140	EA 13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well	931.16	
26 05 26 00-0141		High Density Polyethylene (HDPE) Ground Access Well <small>(26 05 26 00-0105)</small>		
	26 05 26 00-0142	EA 9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well..... Note: With cover.	190.45	
	26 05 26 00-0143	EA 14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well..... Note: With cover.	265.67	
26 05 26 00-0144		Clay Tile Ground Access Wells <small>(26 05 26 00-0105)</small>		
	26 05 26 00-0145	EA 8" Diameter x 24" Deep Clay Tile Ground Access Well With Concrete Cover	301.13	
	26 05 26 00-0146	EA 8" Diameter x 24" Deep Clay Tile Ground Access Well With Cast Iron Grated Cover	316.79	
	26 05 26 00-0147	EA Concrete Cover For 8" Diameter x 24" Deep Clay Tile Ground Access Well.....	96.45	
26 05 26 00-0148		Ground Rod Clamps And Fittings <small>(26 05 26)</small>		
26 05 26 00-0149		Bronze Ground Rod Clamp <small>(26 05 26 00-0148)</small>		
	26 05 26 00-0150	EA 1/2" Bronze Ground Rod Clamp	28.02	16.71
	26 05 26 00-0151	EA 5/8" Bronze Ground Rod Clamp	29.06	16.71
	26 05 26 00-0152	EA 3/4" Bronze Ground Rod Clamp	30.55	16.71
26 05 26 00-0153		Bronze Pipe Clamps <small>(26 05 26 00-0148)</small>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0154 EA 1/2" To 1" Bronze Pipe Ground Clamps.....	39.75	27.81
26 05 26 00-0155 EA 1-1/4" To 2" Bronze Ground Clamps For Pipe	50.51	33.28
26 05 26 00-0156 EA 2-1/2" To 3" Bronze Ground Clamps For Pipe	74.83	38.90
26 05 26 00-0157 EA 2-1/2" To 4" Bronze Ground Clamps For Pipe	91.60	49.99
26 05 26 00-0158 EA 4" To 6" Bronze Ground Clamps For Pipe	140.09	72.18
26 05 26 00-0159 Grounding Fittings (26 05 26 00-0148)		
26 05 26 00-0160 Embedded Fittings (26 05 26 00-0159)		
26 05 26 00-0161 EA Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	188.36	
26 05 26 00-0162 EA Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	197.78	
26 05 26 00-0163 EA Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded.....	214.50	
26 05 26 00-0164 EA #8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice.....	193.06	
26 05 26 00-0165 EA 1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice.....	231.41	
26 05 26 00-0166 EA 4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice.....	271.12	
26 05 26 00-0167 EA 350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice.....	304.79	
26 05 26 00-0168 Ground Rod Receptacle (26 05 26 00-0159)		
26 05 26 00-0169 EA 1/2" Ground Rod Receptacle	403.79	153.82
26 05 26 00-0170 EA 5/8" Ground Rod Receptacle	420.66	158.16
26 05 26 00-0171 EA 3/4" Ground Rod Receptacle	437.98	162.45
26 05 26 00-0172 Ground Kits For Circuit Breaker Panels (26 05 26 00-0159)		
26 05 26 00-0173 EA 14-8 AWG Copper Ground Kit.....	91.70	36.98
26 05 26 00-0174 EA 12-8 AWG Aluminum Ground Kit.....	98.46	36.98
26 05 26 00-0175 EA 14-4 AWG Copper Ground Kit.....	99.62	36.98
26 05 26 00-0176 EA 12-4 AWG Aluminum Ground Kit.....	115.61	36.98
26 05 26 00-0177 Insulated Grounding Bars (26 05 26 00-0148)		
26 05 26 00-0178 EA 1/2" x 4" x 10" Insulated Ground Bar	361.24	37.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.56	
26 05 26 00-0179 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20"	376.54	37.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.56	
26 05 26 00-0180 Ground Conductor Bonding (26 05 26)		
26 05 26 00-0181 Ground Conductor Bonding (26 05 26 00-0180)		
26 05 26 00-0182 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld (26 05 26 00-0181)		
26 05 26 00-0183 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	167.03	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0184 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	181.81	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0185 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	196.61	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0186 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	285.34	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0187 Tee, Wye Or Cross Cadweld (26 05 26 00-0181)		
26 05 26 00-0188 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross.....	189.21	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0189 EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross	218.78	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0190 EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross	270.56	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0191 EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross.....	329.71	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0192 Grounding Equipment (26 05 26)		
26 05 26 00-0193 Special Grounding Equipment (26 05 26 00-0192)		
26 05 26 00-0194 Ground Reels And Ground Bus (26 05 26 00-0193)		
26 05 26 00-0195 EA Ground Reel With 50' Of Galvanized Steel Cable.....	768.14	
26 05 26 00-0196 Copper Bars (26 05 26 00-0193)		
26 05 26 00-0197 LF 1/4" x 2" Copper Bar	45.68	
26 05 26 00-0198 Phenolic Insulators (26 05 26 00-0193)		
26 05 26 00-0199 EA 2" x 2" x 1" Long Phenolic Insulators	36.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.87	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0200	Grounding Studs <small>(26 05 26 00-0193)</small>			
	EA Ball Grounding Stud.....		53.44	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		13.25	
26 05 26 00-0202	Equipment Ground Bar Kits <small>(26 05 26 00-0193)</small>			
	EA Switch Rating 30 Ground Bar Kit.....		40.23	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		8.87	
	EA Switch Rating 60 Ground Bar Kit.....		50.07	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.76	
	EA Switch Rating 100 Ground Bar Kit.....		58.12	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		11.09	
	EA Switch Rating 200 Ground Bar Kit.....		95.82	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		13.31	
26 05 26 00-0207	Panelboard Ground Bar Kits <small>(26 05 26 00-0193)</small>			
	EA Panelboard Ground Bar Kit.....		132.02	11.09
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		11.09	
26 05 26 00-0209	Circuit Breaker Ground Bar Kits <small>(26 05 26 00-0193)</small>			
	EA 3 Circuit, Ground Bar Kit.....		32.84	6.65
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.66	
	EA 4 Circuit, Ground Bar Kit.....		32.35	6.65
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.66	
	EA 7 Circuit, Ground Bar Kit.....		33.17	6.65
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.66	
	EA 12 Circuit, Ground Bar Kit.....		37.60	7.54
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		7.55	
	EA 20 Circuit, Ground Bar Kit.....		42.68	8.44
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		8.43	
	EA 24 Circuit, Ground Bar Kit.....		47.12	9.32
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.32	
	EA 30 Circuit, Ground Bar Kit.....		52.86	10.65
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		10.65	
	EA 54 Circuit, Ground Bar Kit.....		61.25	12.42
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		12.43	
	EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....		63.67	9.32
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.32	
	EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....		70.72	10.65
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		10.65	
	EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....		79.27	12.42
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		12.43	

26 20 Low-Voltage Electrical Distribution (26)

26 24 Switchboards and Panelboards (26 20)

26 24 13 Switchboards (26 24)

Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.

26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire (26 24 13)

26 24 13 00-0002 Incoming Service Section Main Device Only (26 24 13 00-0001)

Note: Copper bus, non-metering type, with fuses.

26 24 13 00-0003	EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,397.28	1,293.71
26 24 13 00-0004	EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,829.81	1,368.40
26 24 13 00-0005	EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	7,400.02	1,552.24
26 24 13 00-0006	EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	7,966.52	1,664.05
26 24 13 00-0007	EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	12,238.20	1,774.24
26 24 13 00-0008	EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	13,588.48	1,886.51
26 24 13 00-0009	EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,158.01	1,293.71
26 24 13 00-0010	EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,433.05	1,368.40
26 24 13 00-0011	EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	8,750.21	1,553.57
26 24 13 00-0012	EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	11,689.95	1,664.05
26 24 13 00-0013	EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,238.20	1,776.02
26 24 13 00-0014	EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,588.48	1,886.51
26 24 13 00-0015	EA 2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	16,148.13	1,972.29
26 24 13 00-0016	EA 3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	18,242.32	2,112.95
26 24 13 00-0017	EA 4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	21,395.73	2,277.71
26 24 13 00-0018	EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,149.95	1,146.25
26 24 13 00-0019	EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,447.96	1,220.35
26 24 13 00-0020	EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,953.86	1,404.78
26 24 13 00-0021	EA 1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,236.94	1,463.80
26 24 13 00-0022	EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,482.83	1,516.60
26 24 13 00-0023	EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,888.40	1,626.05
26 24 13 00-0024	EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,279.78	1,737.57



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 13 00-0025	Branch Breaker Units <small>(26 24 13 00-0001)</small>			
	Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.			
26 24 13 00-0026	EA	15 To 60 Amperes, 240 Volt, MC Branch Breaker.....	337.11	45.11
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.07	
26 24 13 00-0027	EA	70 To 100 Amperes, 240 Volt, MC Branch Breaker.....	496.90	70.99
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.60	
26 24 13 00-0028	EA	125 To 225 Amperes, 240 Volt, MC Branch Breaker.....	1,297.31	129.41
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.65	
26 24 13 00-0029	EA	100 To 400 Amperes, 240 Volt, MC Branch Breaker.....	2,266.05	168.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.17	
26 24 13 00-0030	EA	300 To 600 Amperes, 240 Volt, MC Branch Breaker.....	4,105.60	414.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	248.44	
26 24 13 00-0031	EA	400 To 800 Amperes, 240 Volt, MC Branch Breaker.....	6,421.74	414.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	248.44	
26 24 13 00-0032	EA	600 To 1,200 Amperes, 240 Volt, MC Branch Breaker.....	10,452.10	738.04
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	442.82	
26 24 13 00-0033	Fusible Switch Type 480 Volt, 3 Phase, 3 Wire <small>(26 24 13)</small>			
26 24 13 00-0034	Incoming Service Section Main Device Only <small>(26 24 13 00-0033)</small>			
	Note: Copper bus, non-metering type, with fuses.			
26 24 13 00-0035	EA	400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,189.19	1,678.70
26 24 13 00-0036	EA	600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,860.31	1,678.70
26 24 13 00-0037	EA	800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	9,741.18	2,181.57
26 24 13 00-0038	EA	1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	10,962.43	2,181.57
26 24 13 00-0039	Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire <small>(26 24 13)</small>			
26 24 13 00-0040	Incoming Service Section Main Device Only <small>(26 24 13 00-0039)</small>			
	Note: Copper bus, non-metering type, with fuses.			
26 24 13 00-0041	EA	200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	3,946.53	1,146.25
26 24 13 00-0042	EA	600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	4,360.22	1,220.35
26 24 13 00-0043	EA	800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,397.34	1,404.78
26 24 13 00-0044	EA	1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,944.02	1,515.42
26 24 13 00-0045	EA	200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	4,668.68	1,146.25
26 24 13 00-0046	EA	600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	5,758.23	1,220.35
26 24 13 00-0047	EA	800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	7,897.20	1,404.78
26 24 13 00-0048	EA	1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	11,034.69	1,515.42
26 24 13 00-0049	EA	2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	12,906.92	1,700.88
26 24 13 00-0050	EA	200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	2,882.26	998.20
26 24 13 00-0051	EA	600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,201.77	1,072.44
26 24 13 00-0052	EA	800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,757.36	1,256.88
26 24 13 00-0053	EA	1,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,022.03	1,315.89
26 24 13 00-0054	EA	1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,275.36	1,368.40
26 24 13 00-0055	EA	1,600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,626.53	1,463.80
26 24 13 00-0056	EA	2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,967.08	1,552.24
26 24 13 00-0057	EA	2,500 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	6,162.67	1,922.74
26 24 13 00-0058	EA	3,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	6,871.77	2,107.62
26 24 13 00-0059	EA	4,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	7,959.97	2,274.01
26 24 13 00-0060	Branch Breaker Units <small>(26 24 13 00-0039)</small>			
	Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.			
26 24 13 00-0061	EA	15 To 60 Amperes, 120 / 240 Volt, MC Branch Breaker.....	190.42	39.19
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.52	
26 24 13 00-0062	EA	70 To 100 Amperes, 120 / 240 Volt, MC Branch Breaker.....	304.22	65.08
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.05	
26 24 13 00-0063	EA	125 To 225 Amperes, 120 / 240 Volt, MC Branch Breaker.....	860.87	90.96
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.58	
26 24 13 00-0064	EA	100 To 400 Amperes, 120 / 240 Volt, MC Branch Breaker.....	2,386.26	116.84
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.10	
26 24 13 00-0065	EA	300 To 600 Amperes, 120/240 Volt, MC Branch Breaker.....	3,820.62	284.72
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.81	
26 24 13 00-0066	EA	400 To 800 Amperes, 120/240 Volt, MC Branch Breaker.....	5,357.52	284.72
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.81	
26 24 13 00-0067	EA	600 To 1,200 Amperes, 120/240 Volt, MC Branch Breaker.....	8,879.69	543.54
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	326.16	
26 24 13 00-0068	Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire <small>(26 24 13)</small>			
26 24 13 00-0069	Incoming Service Section Main Device Only <small>(26 24 13 00-0068)</small>			
	Note: Copper bus, non-metering type, with fuses.			
26 24 13 00-0070	EA	400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,399.09	1,293.71
26 24 13 00-0071	EA	600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,827.78	1,368.40
26 24 13 00-0072	EA	800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	7,397.41	1,552.24
26 24 13 00-0073	EA	1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	7,963.52	1,664.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0074 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	12,231.38	1,774.24
26 24 13 00-0075 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	13,588.48	1,886.51
26 24 13 00-0076 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,159.82	1,293.71
26 24 13 00-0077 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,431.02	1,368.40
26 24 13 00-0078 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	8,750.21	1,553.57
26 24 13 00-0079 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	11,686.95	1,664.05
26 24 13 00-0080 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,234.78	1,776.02
26 24 13 00-0081 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,588.48	1,886.51
26 24 13 00-0082 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,269.12	1,146.25
26 24 13 00-0083 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,618.00	1,220.35
26 24 13 00-0084 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,207.73	1,404.78
26 24 13 00-0085 EA 1,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,498.45	1,463.80
26 24 13 00-0086 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,776.95	1,516.60
26 24 13 00-0087 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,173.17	1,626.05
26 24 13 00-0088 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,575.28	1,737.57
26 24 13 00-0089 EA 2,500 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	6,565.35	1,974.51
26 24 13 00-0090 EA 3,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	7,220.20	2,112.80
26 24 13 00-0091 EA 4,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	8,389.71	2,270.31

26 24 13 00-0092**Branch Breaker Units** (26 24 13 00-0068)

Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.

26 24 13 00-0093 EA 15 To 60 Amperes, 120/208 Volt, MC Branch Breaker.....	337.11	45.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.07	
26 24 13 00-0094 EA 70 To 100 Amperes, 120/208 Volt, MC Branch Breaker.....	496.90	70.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.60	
26 24 13 00-0095 EA 125 To 225 Amperes, 120/208 Volt, MC Branch Breaker.....	1,297.31	129.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.65	
26 24 13 00-0096 EA 100 To 400 Amperes, 120/208 Volt, MC Branch Breaker.....	2,266.05	168.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.17	
26 24 13 00-0097 EA 300 To 600 Amperes, 120/208 Volt, MC Branch Breaker.....	4,105.60	414.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	248.44	
26 24 13 00-0098 EA 400 To 800 Amperes, 120/208 Volt, MC Branch Breaker.....	6,421.74	414.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	248.44	
26 24 13 00-0099 EA 600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker.....	10,452.10	738.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	442.82	

26 24 13 00-0100**Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire** (26 24 13)**26 24 13 00-0101****Incoming Service Section Main Device Only** (26 24 13 00-0100)

Note: Copper bus, non-metering type, with fuses.

26 24 13 00-0102 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	5,761.30	1,774.24
26 24 13 00-0103 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	6,286.69	1,886.51
26 24 13 00-0104 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,592.14	2,105.69
26 24 13 00-0105 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	9,363.73	2,254.63
26 24 13 00-0106 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	7,052.85	1,774.24
26 24 13 00-0107 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,181.48	1,886.51
26 24 13 00-0108 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	10,385.35	2,108.06
26 24 13 00-0109 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,868.04	2,254.63
26 24 13 00-0110 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,491.13	2,404.17
26 24 13 00-0111 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	14,922.60	2,553.55
26 24 13 00-0112 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,269.12	1,146.25
26 24 13 00-0113 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,618.00	1,220.35
26 24 13 00-0114 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,207.73	1,404.78
26 24 13 00-0115 EA 1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,498.45	1,463.80
26 24 13 00-0116 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,776.95	1,516.60
26 24 13 00-0117 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,173.17	1,626.05
26 24 13 00-0118 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,575.28	1,737.57

26 24 13 00-0119**Branch Breaker Units** (26 24 13 00-0100)

Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.

26 24 13 00-0120 EA 15 To 60 Amperes, 480/277 Volt, MC Branch Breaker.....	668.87	45.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.07	
26 24 13 00-0121 EA 70 To 100 Amperes, 480/277 Volt, MC Branch Breaker.....	782.36	70.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.60	
26 24 13 00-0122 EA 125 To 225 Amperes, 480/277 Volt, MC Branch Breaker.....	1,419.22	129.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.65	
26 24 13 00-0123 EA 100 To 400 Amperes, 480/277 Volt, MC Branch Breaker.....	2,266.05	168.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.17	
26 24 13 00-0124 EA 300 To 600 Amperes, 480/277 Volt, MC Branch Breaker.....	5,435.72	414.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	248.44	
26 24 13 00-0125 EA 400 To 800 Amperes, 480/277 Volt, MC Branch Breaker.....	5,554.54	414.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	248.44	
26 24 13 00-0126 EA 600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker.....	8,956.87	738.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	442.82	

26 24 13 00-0127**Fusible Branch Circuit Switch** (26 24 13)

Note: Includes switch fuses, and portion of distribution section occupied by that branch device.

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0128		240 Volt, 2 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0129	EA	30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	730.88	116.10
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0130	EA	30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	728.57	116.10
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0131	EA	60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	728.57	116.10
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0132	EA	60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	1,126.01	153.08
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0133	EA	100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	1,126.01	153.08
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0134		240 Volt, 2 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0135	EA	100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	824.70	113.89
		<i>For Electrical Interlock Kit, Add</i>	258.42	
26 24 13 00-0136	EA	200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	1,171.23	113.89
		<i>For Electrical Interlock Kit, Add</i>	258.42	
26 24 13 00-0137	EA	400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	3,018.95	306.90
26 24 13 00-0138		240 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0139	EA	30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	925.84	130.90
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0140	EA	30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	923.53	130.90
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0141	EA	60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	923.53	130.90
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0142	EA	60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,378.12	175.27
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0143	EA	100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,378.12	175.27
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0144		240 Volt, 3 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0145	EA	100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	993.29	128.67
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0146	EA	200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	1,558.20	128.67
		<i>For Electrical Interlock Kit, Add</i>	258.42	
26 24 13 00-0147	EA	400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	4,002.94	343.58
26 24 13 00-0148	EA	600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	5,686.12	440.16
26 24 13 00-0149	EA	800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	10,449.88	596.35
26 24 13 00-0150		600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0151	EA	30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,275.65	130.90
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0152	EA	30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,273.31	130.90
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0153	EA	60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,275.65	130.90
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0154	EA	60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,905.93	175.27
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0155	EA	100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,945.00	175.27
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0156	EA	200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	4,055.20	229.25
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0157		600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0158	EA	100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	1,370.05	128.67
		<i>For Electrical Interlock Kit, Add</i>	269.76	
26 24 13 00-0159	EA	200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	2,036.51	128.67
		<i>For Electrical Interlock Kit, Add</i>	258.42	
26 24 13 00-0160	EA	400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	4,973.16	343.58
		<i>For Electrical Interlock Kit, Add</i>	258.42	
26 24 13 00-0161	EA	600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	6,053.35	440.16
26 24 13 00-0162	EA	800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	10,449.88	596.35
26 24 13 00-0163		Service And Distribution Structures (26 24 13)		
26 24 13 00-0164		Distribution Section 600 Volt, 250 Volt DC (26 24 13 00-0163)		
26 24 13 00-0165		600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0166	EA	14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,188.43	1,360.70
26 24 13 00-0167	EA	24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,743.90	1,360.70
26 24 13 00-0168	EA	34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,170.67	1,730.46
26 24 13 00-0169	EA	42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,648.48	1,730.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0170 800 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,623.26	1,575.16
26 24 13 00-0172 EA 24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,159.84	1,575.16
26 24 13 00-0173 EA 34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,648.48	1,952.32
26 24 13 00-0174 EA 42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,077.72	1,952.32
26 24 13 00-0175 1,200 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,296.27	1,922.74
26 24 13 00-0177 EA 24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,849.00	1,922.74
26 24 13 00-0178 EA 34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,371.17	2,366.45
26 24 13 00-0179 EA 42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,000.02	2,366.45
26 24 13 00-0180 1,600 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,131.65	2,107.62
26 24 13 00-0182 EA 24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,813.64	2,107.62
26 24 13 00-0183 EA 34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,441.02	2,603.10
26 24 13 00-0184 EA 42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,988.81	2,603.10
26 24 13 00-0185 2,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,405.85	2,115.01
26 24 13 00-0187 EA 24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,152.26	2,381.24
26 24 13 00-0188 EA 34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,251.41	2,381.24
26 24 13 00-0189 EA 42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,541.64	2,514.35
26 24 13 00-0190 3,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0191 EA 24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,094.92	2,381.24
26 24 13 00-0192 EA 34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,192.59	2,381.24
26 24 13 00-0193 EA 42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,482.82	2,514.35
26 24 13 00-0194 4,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0195 EA 24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,284.53	2,514.35
26 24 13 00-0196 EA 34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,482.82	2,514.35
26 24 13 00-0197 EA 42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,587.62	2,514.35
26 24 13 00-0198 Pull Boy, Horizontal Mounted Across Top Of Switch Board <small>(26 24 13 00-0164)</small>		
26 24 13 00-0199 EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard.....	610.73	177.48
26 24 13 00-0200 EA Drilled Bottom For Pull Boy.....	690.07	177.48
26 24 13 00-0201 EA Cable Supports In Pull Box.....	230.15	44.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.65	
26 24 13 00-0202 Underground Pull Sections <small>(26 24 13 00-0164)</small>		
<i>Note: Excludes no bus or terminal.</i>		
26 24 13 00-0203 EA 12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal.....	610.16	207.07
26 24 13 00-0204 EA 24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal.....	1,016.17	266.22
26 24 13 00-0205 EA 24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal.....	1,016.17	266.22
26 24 13 00-0206 EA 14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	775.43	207.07
26 24 13 00-0207 EA 28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	1,084.17	303.20
26 24 13 00-0208 EA 14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,247.73	303.20
26 24 13 00-0209 EA 26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,321.18	391.94
26 24 13 00-0210 EA 38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,410.67	391.94
26 24 13 00-0211 Switchboard Sections <small>(26 24 13 00-0163)</small>		
26 24 13 00-0212 EA 600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	4,730.91	1,232.47
26 24 13 00-0213 EA 800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	5,175.12	1,339.71
26 24 13 00-0214 EA 1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	6,510.49	1,711.83
26 24 13 00-0215 EA 1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,117.29	1,867.42
26 24 13 00-0216 EA 2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,588.13	1,987.96
26 24 13 00-0217 EA 400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section.....	5,380.50	1,081.17
26 24 13 00-0218 EA 200 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,328.34	1,027.04
26 24 13 00-0219 EA 400 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,672.34	1,113.71
26 24 13 00-0220 EA 120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus.....	8,120.71	1,232.47
26 24 13 00-0221 EA 800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	8,741.36	1,235.73
26 24 13 00-0222 EA 1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	9,607.09	1,379.64
26 24 13 00-0223 EA 15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	197.84	73.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.17	
26 24 13 00-0224 EA 70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	239.58	75.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.36	
26 24 13 00-0225 EA 70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame.....	967.67	88.89
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.95	
26 24 13 00-0226 EA 125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame.....	1,571.25	191.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	160.07	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0227 EA 100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	656.21 92.44	266.81
26 24 13 00-0228 EA 225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,696.70 114.95	154.12
26 24 13 00-0229 Switchboard, Structure Per Section Copper, 480 Volt (26 24 13 00-0163)		
26 24 13 00-0230 EA 225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	2,454.42	641.90
26 24 13 00-0231 EA 400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	3,462.29	868.04
26 24 13 00-0232 EA 600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	3,937.40	1,056.47
26 24 13 00-0233 EA 800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	5,059.85	1,479.03
26 24 13 00-0234 EA 1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	6,280.34	1,848.79
26 24 13 00-0235 EA 1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	6,800.58	1,848.79
26 24 13 00-0236 EA 2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	8,512.84	2,465.11
26 24 13 00-0237 EA 2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	9,510.36	2,465.11
26 24 13 00-0238 EA 3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	11,206.47	2,934.55
26 24 13 00-0239 EA 4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	13,042.01	2,934.55
26 24 13 00-0240 Main Devices (26 24 13)		
26 24 13 00-0241 Power Circuit Breakers (26 24 13 00-0240)		
26 24 13 00-0242 DSL Breaker With Current Limiters And Amptector (26 24 13 00-0241) Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243 EA 50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,163.41 929.82	1,552.98
26 24 13 00-0244 EA 50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,741.59 1,551.43	2,588.31
26 24 13 00-0245 EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,234.40 2,585.72	4,348.35
26 24 13 00-0246 EA 4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52,070.66 4,299.51	7,040.19
26 24 13 00-0247 EA Ground-Fault Trip All Power Breakers - Factory Installed.....	2,497.98	
26 24 13 00-0248 EA Key Interlock All Power Breakers - Factory Installed	322.61	
26 24 13 00-0249 EA Short Time Delay Selective Trip - Factory Installed	423.24	
26 24 13 00-0250 EA Shunt Trip Manually Open Breakers - Factory Installed.....	304.85	
26 24 13 00-0251 DSL Breaker Electrical Operated And Amptector (26 24 13 00-0241) Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0252 EA 50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,449.13 980.79	1,626.94
26 24 13 00-0253 EA 50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,352.44 1,633.69	2,736.21
26 24 13 00-0254 EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,015.08 2,718.81	4,511.04
26 24 13 00-0255 EA 4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55,991.77 4,546.20	7,395.16
26 24 13 00-0256 DS Breakers With Amptector Static Trip, Manually Operated (26 24 13 00-0241) Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257 EA 50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,617.89 853.29	1,419.87
26 24 13 00-0258 EA 50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,960.65 1,422.15	2,381.24
26 24 13 00-0259 EA 2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,006.66 2,370.24	3,993.38
26 24 13 00-0260 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,924.16 3,947.59	6,433.78
26 24 13 00-0261 EA 4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50,472.69 6,563.75	10,501.12
26 24 13 00-0262 DS Breakers With Amptector Static Trip, Electrically Operated (26 24 13 00-0241) Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263 EA 50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,602.22 813.85	1,360.70
26 24 13 00-0264 EA 50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,014.94 1,356.08	2,277.71
26 24 13 00-0265 EA 2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,311.21 2,263.82	3,786.32
26 24 13 00-0266 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,560.97 3,773.04	6,167.56
26 24 13 00-0267 EA 4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52,909.95 6,302.69	10,575.08
26 24 13 00-0268 Molded Case Circuit Breakers Conventional (26 24 13 00-0241)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0269 EA 70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	3,186.13	1,242.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	715.66	
26 24 13 00-0270 EA 125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	4,375.04	1,242.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	778.44	
26 24 13 00-0271 EA 300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	4,842.08	1,479.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	853.29	
26 24 13 00-0272 EA 400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	5,660.68	1,479.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	924.39	
26 24 13 00-0273 EA 600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	8,020.54	1,774.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,013.04	
26 24 13 00-0274 EA 1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	12,414.21	1,774.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,120.48	
26 24 13 00-0275 EA Shunt Trip, Factory Installed.....	319.65	
26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed.....	73.99	
26 24 13 00-0277 Switchboard Branch Breaker 480 Volt (26 24 13 00-0240)		
26 24 13 00-0278 EA 60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	573.85	107.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.31	
26 24 13 00-0279 EA 100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	686.87	142.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.33	
26 24 13 00-0280 EA 225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	1,861.56	214.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	128.54	
26 24 13 00-0281 EA 400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,451.51	268.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	161.23	
26 24 13 00-0282 EA 600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,989.44	360.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	216.23	
26 24 13 00-0283 EA 800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,627.40	462.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	277.32	
26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	5,809.73	704.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	422.58	
26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	5,809.73	704.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	422.58	
26 24 13 00-0286 EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	8,147.36	986.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	591.61	
26 24 13 00-0287 EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	10,323.54	1,479.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	887.42	
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker (26 24 13 00-0240)		
26 24 13 00-0289 EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	6,498.49	641.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	385.17	
26 24 13 00-0290 EA 600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	6,620.53	702.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	421.78	
26 24 13 00-0291 EA 800 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	7,327.50	1,056.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	633.87	
26 24 13 00-0292 EA 1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	12,325.94	1,479.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	887.42	
26 24 13 00-0293 EA 1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	12,640.08	1,636.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	981.66	
26 24 13 00-0294 EA 2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	17,176.89	2,934.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,760.75	
26 24 13 00-0295 Branch Or Distribution Devices (26 24 13)		
26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0297 EA 15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	646.18	53.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 24 13 00-0298 EA 70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	657.29	66.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.37	
26 24 13 00-0299 EA 125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,552.11	79.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.24	
26 24 13 00-0300 EA 70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,246.05	103.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.78	
26 24 13 00-0301 EA 125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	3,160.15	127.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.19	
26 24 13 00-0302 EA 300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	4,132.55	149.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.83	
26 24 13 00-0303 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	6,286.60	168.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.70	
26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0305 EA 15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	446.43	39.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 24 13 00-0306 EA 70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	574.30	53.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 24 13 00-0307 EA 125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,541.84	66.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.37	
26 24 13 00-0308 EA 70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,431.02	73.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.81	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0309	EA		125 To 400 Amperes, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,575.98 64.34	96.13
26 24 13 00-0310	EA		900 To 1,000 Amperes, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,809.11 93.18	139.77
26 24 13 00-0311			Meter Devices And Instrumentation (26 24 13) Note: Factory installed accessories.		
26 24 13 00-0312			Compartments For Instrument Transformers And Metering Devices (26 24 13 00-0311)		
26 24 13 00-0313	EA		Compartment For, Up To 800 Amperes, Primary Current Transformer.....	386.24	
26 24 13 00-0314	EA		Compartment For, 1,000 To 1,500 Amperes, Primary Current Transformer.....	557.90	
26 24 13 00-0315	EA		Compartment For, 2,000 To 6,000 Amperes, Primary Current Transformer.....	657.05	
26 24 13 00-0316			Instruments (26 24 13 00-0311)		
26 24 13 00-0317	EA		AC Voltmeter.....	526.82	
26 24 13 00-0318	EA		AC Ammeter.....	526.82	
26 24 13 00-0319	EA		AC Wattmeter.....	1,407.33	
26 24 13 00-0320	EA		Variometer.....	1,589.35	
26 24 13 00-0321	EA		Power Factor Meter.....	1,269.71	
26 24 13 00-0322	EA		Frequency Meter.....	1,401.41	
26 24 13 00-0323	EA		200 Volt-Amperes Max Potential Transformer.....	473.55	
26 24 13 00-0324	EA		AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	1,783.21	
26 24 13 00-0325	EA		AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2.....	2,983.36	
26 24 13 00-0326	EA		Weatherproof, Modify Meter.....	3,103.12	
26 24 13 00-0327	EA		Control Switch Resistor Type 130 V.....	78.98	
26 24 13 00-0328	EA		Metering Instrument: Voltage, Amperes And Watt Hour.....	3,598.69	
26 24 16			Panelboards (26 24)		
26 24 16 00-0001			Branch Circuit Panelboard (26 24 16) Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
26 24 16 00-0002			Assembled Lighting And Power Panelboards (26 24 16 00-0001) Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
26 24 16 00-0003			120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0004	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	1,331.26 1,475.99	421.52
26 24 16 00-0005	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	1,527.48 1,475.99	421.52
26 24 16 00-0006	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	1,746.36 1,475.99	584.22
26 24 16 00-0007	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	1,964.25 1,475.99	584.22
26 24 16 00-0008	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	2,172.32 1,475.99	732.12
26 24 16 00-0009	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	2,385.64 1,475.99	732.12
26 24 16 00-0010	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	2,590.92 1,475.99	843.05
26 24 16 00-0011	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,131.43 1,623.18 118.61	1,079.70
26 24 16 00-0012	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,309.42 1,623.18 118.61	1,079.70
26 24 16 00-0013	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,478.14 1,623.18 118.61	1,234.99
26 24 16 00-0014	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,746.81 1,917.37 202.57	1,234.99
26 24 16 00-0015	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,909.27 1,917.37 202.57	1,390.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0016 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,157.20	1,390.29
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0017 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,316.80	1,538.20
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0018 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,555.45	1,538.20
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0019 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	4,783.81	1,700.88
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0020 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	4,933.87	1,700.88
<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0021 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,173.02	1,700.88
<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0022 120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0023 EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,525.44	406.74
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0024 EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,724.86	406.74
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0025 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,202.93	695.15
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0026 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,492.07	695.15
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0027 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,704.06	850.44
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0028 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,926.10	850.44
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0029 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,121.38	1,020.53
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0030 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,761.57	1,020.53
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0031 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,938.65	1,249.78
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0032 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,132.51	1,249.78
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0033 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,346.51	1,405.08
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0034 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,516.71	1,405.08
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0035 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,699.36	1,538.20
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0036 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,896.32	1,538.20
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0037 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,109.97	1,819.21
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0038 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,343.13	1,819.21
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0039	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,599.37	1,819.21
		<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0040	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,753.47	1,922.74
		<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0041		120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards ^(26 24 16 00-0002)		
26 24 16 00-0042	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,593.48	480.68
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0043	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,801.41	480.68
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0044	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,034.79	643.38
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0045	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,276.39	643.38
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0046	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,495.28	791.28
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0047	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,730.26	791.28
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0048	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	2,949.70	939.18
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0049	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,184.01	939.18
		<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0050	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,393.61	1,101.88
		<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0051	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,634.83	1,101.88
		<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0052	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,887.66	1,271.96
		<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0053	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,128.82	1,271.96
		<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0054	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,632.65	1,538.20
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0055	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,811.71	1,538.20
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0056	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,089.01	1,708.28
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0057	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,351.85	1,708.28
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0058	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,527.92	1,863.58
		<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0059	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,802.06	1,863.58
		<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0060	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,502.69	1,653.56
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0061	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,699.82	1,737.86
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0062 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,991.62	1,830.31
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0063 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	6,277.36	1,937.53
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0064 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	6,466.97	1,996.70
<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0065 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,789.43	2,118.71
<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0066 120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0067 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	1,830.89	465.89
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0068 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	2,041.83	465.89
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0069 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,286.34	613.80
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0070 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,602.41	613.80
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0071 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,149.97	924.39
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0072 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	3,362.01	924.39
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0073 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,595.44	1,079.70
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0074 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,794.95	1,079.70
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0075 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,054.52	1,249.78
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0076 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,241.81	1,249.78
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0077 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,521.73	1,405.08
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0078 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,755.59	1,405.08
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0079 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,549.93	1,626.94
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0080 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	5,807.19	1,715.68
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0081 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,923.36	1,715.68
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0082 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	6,215.69	1,937.53
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0083 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	6,409.47	1,937.53
<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0084 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two- 20 Ampere Breakers	6,552.07	1,937.53
<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0085	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,449.20	1,782.23
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0086	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,733.64	1,885.77
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0087	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,854.49	1,937.53
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0088	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,171.98	2,055.85
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0089	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,365.36	2,115.01
		<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0090	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,559.45	2,188.97
		<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0091		480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0092	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,755.96	473.29
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0093	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,024.25	473.29
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0094	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,279.84	650.77
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0095	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,548.08	650.77
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0096	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,795.63	813.46
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0097	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,058.55	813.46
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0098	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,334.65	983.55
		<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0099	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,584.41	983.55
		<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0100	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,862.90	1,168.44
		<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0101	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,130.41	1,168.44
		<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0102	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,373.19	1,331.13
		<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0103	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,636.13	1,331.13
		<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0104	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,214.93	1,619.54
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0105	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,477.51	1,619.54
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0106	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,759.60	1,774.84
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0107	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,954.93	1,774.84
		<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0108 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,273.24	1,959.72
<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0109 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,489.22	1,959.72
<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0110 480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0111 EA 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,209.58	502.87
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0112 EA 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,470.85	547.24
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0113 EA 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,735.44	680.35
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0114 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	3,300.99	828.26
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0115 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,558.04	917.00
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0116 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,789.10	990.96
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0117 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	4,047.49	1,079.70
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0118 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	4,294.76	1,168.44
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0119 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,517.87	1,242.39
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0120 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,759.90	1,316.33
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0121 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,024.82	1,405.08
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0122 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	5,317.76	1,516.01
<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0123 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,546.83	1,686.09
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0124 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,826.22	1,789.63
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0125 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	7,014.21	1,834.00
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0126 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,332.99	1,952.32
<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0127 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,543.50	2,026.27
<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0128 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,763.16	2,089.88
<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0129 277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0130 EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,102.49	517.66
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	
26 24 16 00-0131 EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,394.14	517.66
<i>For NEMA 3R Panelboard, Add</i>	1,475.99	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0132 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,676.81 1,475.99	687.75
26 24 16 00-0133 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,962.23 1,475.99	687.75
26 24 16 00-0134 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,253.21 1,475.99	850.44
26 24 16 00-0135 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,537.00 1,475.99	850.44
26 24 16 00-0136 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,826.38 1,475.99	1,020.53
26 24 16 00-0137 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,114.31 1,623.18 118.61	1,020.53
26 24 16 00-0138 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,434.04 1,623.18 118.61	1,198.02
26 24 16 00-0139 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,692.86 1,623.18 118.61	1,198.02
26 24 16 00-0140 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,969.46 1,623.18 118.61	1,205.41
26 24 16 00-0141 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,267.52 1,623.18 118.61	1,205.41
26 24 16 00-0142 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,017.22 1,917.37 202.57	1,671.31
26 24 16 00-0143 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,321.26 1,917.37 202.57	1,671.31
26 24 16 00-0144 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,542.94 1,917.37 202.57	1,760.05
26 24 16 00-0145 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,880.22 1,917.37 202.57	1,878.37
26 24 16 00-0146 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,120.79 1,995.59 258.89	1,878.37
26 24 16 00-0147 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,501.41 1,995.59 258.89	2,055.85
26 24 16 00-0148 277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards ^(26 24 16 00-0002)		
26 24 16 00-0149 EA 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,711.06 1,475.99	635.98
26 24 16 00-0150 EA 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,010.91 1,475.99	635.98
26 24 16 00-0151 EA 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,297.39 1,475.99	843.05
26 24 16 00-0152 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,935.97 1,475.99	843.05
26 24 16 00-0153 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	4,218.29 1,475.99	1,064.90
26 24 16 00-0154 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	4,500.08 1,475.99	1,064.90
26 24 16 00-0155 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	4,770.75 1,475.99	1,220.20



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0156	EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	5,017.25	1,220.20
				<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0157	EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	5,282.67	1,390.29
				<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0158	EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	5,570.98	1,390.29
				<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0159	EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,812.19	1,538.20
				<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0160	EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	6,067.72	1,538.20
				<i>For NEMA 3R Panelboard, Add</i>	1,623.18	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0161	EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	7,737.75	1,819.21
				<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0162	EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	8,056.45	1,819.21
				<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0163	EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	8,278.45	1,989.29
				<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0164	EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	8,640.51	1,989.29
				<i>For NEMA 3R Panelboard, Add</i>	1,917.37	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0165	EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	8,887.45	2,174.18
				<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0166	EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	9,144.50	2,174.18
				<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0167	EA			400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	10,731.92	2,421.18
				<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0168	EA			600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	13,037.70	2,906.29
				<i>For NEMA 3R Panelboard, Add</i>	1,995.59	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0169				Unassembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> Note: Includes the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0170				240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171				Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0172	EA			100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	633.89	
26 24 16 00-0173	EA			100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	734.46	
26 24 16 00-0174	EA			225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,022.42	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0175	EA			225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,184.61	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0176	EA			225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,344.77	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0177	EA			400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,513.99	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0178	EA			400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,647.72	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0179	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,809.17	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0180	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,048.81	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0181	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,184.67	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0182	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,398.53	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0183		Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase		
		Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0184	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	949.41	
26 24 16 00-0185	EA	100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,084.16	
26 24 16 00-0186	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,754.19	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0187	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,957.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0188	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,153.64	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0189	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,602.28	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0190	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,852.23	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0191	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,072.20	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0192		Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase		
		Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0193	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,223.97	
26 24 16 00-0194	EA	100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,317.79	
26 24 16 00-0195	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,591.70	
26 24 16 00-0196	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,751.08	
26 24 16 00-0197	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,900.57	
26 24 16 00-0198	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,178.81	
26 24 16 00-0199	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,305.23	
26 24 16 00-0200	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,459.94	
26 24 16 00-0201	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,751.29	
26 24 16 00-0202	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,882.44	
26 24 16 00-0203	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,085.68	
26 24 16 00-0204		Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1		
		Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0205	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,532.75	
26 24 16 00-0206	EA	100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,660.19	
26 24 16 00-0207	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,432.50	
26 24 16 00-0208	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,622.71	
26 24 16 00-0209	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,808.35	
26 24 16 00-0210	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,242.94	
26 24 16 00-0211	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,486.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0212 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,704.43	
26 24 16 00-0213 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
<i>Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers</i>		
26 24 16 00-0214 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0215 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	718.60	
26 24 16 00-0216 EA 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	849.02	
26 24 16 00-0217 EA 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	963.35	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>118.61</i>	
26 24 16 00-0218 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,106.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>118.61</i>	
26 24 16 00-0219 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,276.65	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>202.57</i>	
26 24 16 00-0220 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,417.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>258.89</i>	
26 24 16 00-0221 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,637.25	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>118.61</i>	
26 24 16 00-0222 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,769.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>202.57</i>	
26 24 16 00-0223 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,917.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>258.89</i>	
26 24 16 00-0224 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,184.42	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>118.61</i>	
26 24 16 00-0225 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,401.44	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>202.57</i>	
26 24 16 00-0226 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,813.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>258.89</i>	
26 24 16 00-0227 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0228 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,108.90	
26 24 16 00-0229 EA 100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,253.59	
26 24 16 00-0230 EA 100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,472.63	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>118.61</i>	
26 24 16 00-0231 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,145.72	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>118.61</i>	
26 24 16 00-0232 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,328.43	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>202.57</i>	
26 24 16 00-0233 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,511.39	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>258.89</i>	
26 24 16 00-0234 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,427.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>118.61</i>	
26 24 16 00-0235 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,664.75	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>202.57</i>	
26 24 16 00-0236 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,859.31	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>258.89</i>	
26 24 16 00-0237 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0238 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,308.68	
26 24 16 00-0239 EA 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,432.35	
26 24 16 00-0240 EA 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,539.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0241 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,675.99	
26 24 16 00-0242 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,843.12	
26 24 16 00-0243 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,973.55	
26 24 16 00-0244 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,302.08	
26 24 16 00-0245 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,426.57	
26 24 16 00-0246 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,567.83	
26 24 16 00-0247 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,886.90	
26 24 16 00-0248 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,090.99	
26 24 16 00-0249 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,503.31	
26 24 16 00-0250 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0251 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,692.24	
26 24 16 00-0252 EA 100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,829.62	
26 24 16 00-0253 EA 100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,044.73	
26 24 16 00-0254 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,824.03	
26 24 16 00-0255 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,993.26	
26 24 16 00-0256 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,166.10	
26 24 16 00-0257 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,657.69	
26 24 16 00-0258 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,900.43	
26 24 16 00-0259 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,104.88	
26 24 16 00-0260 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal.		
26 24 16 00-0261 Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0262 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,000.75	
26 24 16 00-0263 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,107.60	
26 24 16 00-0264 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,545.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0265 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,730.23	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0266 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,891.25	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0267 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,916.60	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0268 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,029.25	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0269 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,210.06	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0270 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,423.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0271 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,598.28	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0272 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,844.28	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0273 Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0274 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,999.99	
26 24 16 00-0275 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,062.67	
26 24 16 00-0276 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,242.89	
26 24 16 00-0277 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,373.82	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>118.61</i>	
26 24 16 00-0278 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,655.12	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>202.57</i>	
26 24 16 00-0279 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,445.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>118.61</i>	
26 24 16 00-0280 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,610.54	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>202.57</i>	
26 24 16 00-0281 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,828.40	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>258.89</i>	
26 24 16 00-0282 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,999.73	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>118.61</i>	
26 24 16 00-0283 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,248.67	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>202.57</i>	
26 24 16 00-0284 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,468.20	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>258.89</i>	
26 24 16 00-0285 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0286 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,570.60	
26 24 16 00-0287 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,677.44	
26 24 16 00-0288 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,101.36	
26 24 16 00-0289 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,384.38	
26 24 16 00-0290 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,534.15	
26 24 16 00-0291 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,559.50	
26 24 16 00-0292 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,655.29	
26 24 16 00-0293 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,811.94	
26 24 16 00-0294 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,081.07	
26 24 16 00-0295 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,242.72	
26 24 16 00-0296 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,459.47	
26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0298 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,691.22	
26 24 16 00-0299 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,753.91	
26 24 16 00-0300 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,804.31	
26 24 16 00-0301 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,930.18	
26 24 16 00-0302 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,309.26	
26 24 16 00-0303 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,088.09	
26 24 16 00-0304 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,236.59	
26 24 16 00-0305 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,430.28	
26 24 16 00-0306 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,601.61	
26 24 16 00-0307 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,835.24	
26 24 16 00-0308 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,052.61	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 16 00-0309		480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
		Note: As manufactured by Square D or equal.		
26 24 16 00-0310		Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0311	EA	125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,038.97	
26 24 16 00-0312	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,146.37	
26 24 16 00-0313	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,331.45	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0314	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,601.25	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0315	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,787.75	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0316	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,947.70	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0317	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,990.74	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0318	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,121.41	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0319	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,300.77	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0320	EA	600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,513.74	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0321	EA	600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,690.29	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0322	EA	600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,937.39	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0323		Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0324	EA	100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,196.68	
26 24 16 00-0325	EA	100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,259.93	
26 24 16 00-0326	EA	100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,452.60	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0327	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,513.29	
26 24 16 00-0328	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,644.65	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0329	EA	125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,925.35	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0330	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,762.17	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0331	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,929.51	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0332	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,145.07	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0333	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,379.57	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	118.61	
26 24 16 00-0334	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,630.68	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	202.57	
26 24 16 00-0335	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,850.30	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	258.89	
26 24 16 00-0336		Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0337	EA	125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,608.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0338 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,716.22	
26 24 16 00-0339 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,892.86	
26 24 16 00-0340 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,157.61	
26 24 16 00-0341 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,441.90	
26 24 16 00-0342 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,590.61	
26 24 16 00-0343 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,635.33	
26 24 16 00-0344 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,747.46	
26 24 16 00-0345 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,902.65	
26 24 16 00-0346 EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,171.82	
26 24 16 00-0347 EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,334.32	
26 24 16 00-0348 EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,551.07	
26 24 16 00-0349 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0350 EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	2,753.04	
26 24 16 00-0351 EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	2,816.29	
26 24 16 00-0352 EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,106.74	
26 24 16 00-0353 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,074.71	
26 24 16 00-0354 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,201.01	
26 24 16 00-0355 EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,579.49	
26 24 16 00-0356 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,405.07	
26 24 16 00-0357 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,555.56	
26 24 16 00-0358 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,746.95	
26 24 16 00-0359 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,981.45	
26 24 16 00-0360 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,216.82	
26 24 16 00-0361 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,433.64	
26 24 16 00-0362 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: Square D I-Line or equal.		
26 24 16 00-0363 Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0364 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	1,930.99	439.89
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		263.94
26 24 16 00-0365 EA 400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	2,212.62	439.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		263.87
26 24 16 00-0366 EA 400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	2,424.75	439.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		263.87
26 24 16 00-0367 EA 600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	2,908.24	722.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		433.32
26 24 16 00-0368 EA 600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,072.42	722.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		433.32
26 24 16 00-0369 EA 600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,252.58	722.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		433.32
26 24 16 00-0370 EA 800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,630.10	960.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		576.00
26 24 16 00-0371 EA 800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,789.98	962.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		577.76
26 24 16 00-0372 EA 800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,852.40	960.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		576.00

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0373 EA 800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,373.28	960.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	576.00	
26 24 16 00-0374 EA 1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,824.45	1,444.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	866.64	
26 24 16 00-0375 EA 1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,178.97	1,444.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	866.64	
26 24 16 00-0376 EA 1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,468.83	1,444.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	866.64	
26 24 16 00-0377 EA 1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,822.62	1,444.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	866.64	
26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0379 EA 225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,472.98	449.20
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	269.51	
26 24 16 00-0380 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,507.53	509.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	305.71	
26 24 16 00-0381 EA 400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,712.39	509.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	305.71	
26 24 16 00-0382 EA 400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,315.36	509.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	305.71	
26 24 16 00-0383 EA 600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,042.69	835.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	501.14	
26 24 16 00-0384 EA 600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,382.76	837.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	502.47	
26 24 16 00-0385 EA 600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,660.19	835.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	501.14	
26 24 16 00-0386 EA 800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,943.58	1,116.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	669.95	
26 24 16 00-0387 EA 800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,341.79	1,112.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	667.59	
26 24 16 00-0388 EA 800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,741.35	1,112.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	667.59	
26 24 16 00-0389 Residential Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0390 Residential Type Unassembled Load Center <small>(26 24 16 00-0389)</small> Note: Interior box and cover, includes ground bar kit.		
26 24 16 00-0391 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0392 EA 30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	183.45	73.95
26 24 16 00-0393 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	644.42	295.81
26 24 16 00-0394 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	958.84	422.26
26 24 16 00-0395 EA 125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,040.31	887.57
26 24 16 00-0396 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,225.65	961.37
26 24 16 00-0397 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.		
26 24 16 00-0398 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	242.26	81.35
26 24 16 00-0399 EA 125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	398.92	88.74
26 24 16 00-0400 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0401 EA 40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	245.51	81.35
26 24 16 00-0402 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	272.63	88.74



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0403 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	1,023.96	422.26
26 24 16 00-0404 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,324.76	961.37
26 24 16 00-0405 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0406 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	291.81	81.35
26 24 16 00-0407 EA 125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	2,221.67	887.57
26 24 16 00-0408 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0409 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,348.96	887.57
26 24 16 00-0410 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,548.45	961.37
26 24 16 00-0411 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	7,792.46	1,479.03
26 24 16 00-0412 Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.		
26 24 16 00-0413 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,171.25	887.57
26 24 16 00-0414 EA 150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,454.99	961.37
26 24 16 00-0415 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	8,484.37	1,479.03
26 24 16 00-0416 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0417 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,440.98	887.57
26 24 16 00-0418 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,705.61	961.37
26 24 16 00-0419 Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0420 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	3,323.88	887.57
26 24 16 00-0421 EA 155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	3,471.56	961.37
26 24 16 00-0422 Residential Type Assembled Load Center <small>(26 24 16 00-0389)</small>		
26 24 16 00-0423 Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase <small>(26 24 16 00-0422)</small> Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0424 EA 100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	959.26	422.26
26 24 16 00-0425 EA 100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,155.03	493.25
26 24 16 00-0426 EA 100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	974.83	422.26
26 24 16 00-0427 EA 100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,159.28	493.25
26 24 16 00-0428 EA 200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,646.23	657.43
26 24 16 00-0429 EA 200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,950.50	789.06
26 24 16 00-0430 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,235.40	910.34
26 24 16 00-0431 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,452.36	985.48
26 24 16 00-0432 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,673.04	1,479.03
26 24 16 00-0433 EA 200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,701.44	657.43
26 24 16 00-0434 EA 200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,002.88	789.06
26 24 16 00-0435 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,287.79	910.34
26 24 16 00-0436 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,501.92	985.48
26 24 16 00-0437 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,835.86	1,479.03
26 24 16 00-0438 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,412.29	1,643.35



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0439	EA	400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,582.19	1,643.35
26 24 16 00-0440		Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt <small>(26 24 16 00-0422)</small> Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0441	EA	125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,234.32	493.25
26 24 16 00-0442	EA	125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,842.89	739.52
26 24 16 00-0443	EA	125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,281.04	493.25
26 24 16 00-0444	EA	125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,885.37	739.52
26 24 16 00-0445	EA	200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,316.10	910.34
26 24 16 00-0446	EA	200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,524.20	986.07
26 24 16 00-0447	EA	200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,075.11	1,183.66
26 24 16 00-0448	EA	200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,729.67	1,479.03
26 24 16 00-0449	EA	200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,365.65	910.34
26 24 16 00-0450	EA	200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,579.79	985.48
26 24 16 00-0451	EA	200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,264.74	1,182.78
26 24 16 00-0452	EA	200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,920.81	1,479.03
26 24 16 00-0453	EA	400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,454.77	1,643.35
26 24 16 00-0454	EA	400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,624.66	1,643.35
26 24 16 00-0455		Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase <small>(26 24 16 00-0422)</small> Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0456	EA	125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,228.65	493.25
26 24 16 00-0457	EA	125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,823.07	739.52
26 24 16 00-0458	EA	200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,066.59	789.06
26 24 16 00-0459	EA	200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,373.63	910.79
26 24 16 00-0460	EA	200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,602.07	986.07
26 24 16 00-0461	EA	200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,451.02	1,314.86
26 24 16 00-0462	EA	200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,080.75	789.06
26 24 16 00-0463	EA	200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,401.05	910.34
26 24 16 00-0464	EA	200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,608.10	985.48
26 24 16 00-0465	EA	200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,373.15	1,314.86
26 24 16 00-0466	EA	400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	5,870.57	1,643.35
26 24 16 00-0467	EA	400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	6,153.73	1,643.35
26 24 16 00-0468		Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt <small>(26 24 16 00-0422)</small> Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0469	EA	200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,998.50	986.07
26 24 16 00-0470	EA	200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,182.73	1,479.03
26 24 16 00-0471	EA	200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,082.40	985.48
26 24 16 00-0472	EA	200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,267.68	1,479.03
26 24 16 00-0473		Panel Mounted Accessories And Fuseholders <small>(26 24 16 00-0001)</small>		
26 24 16 00-0474		Midget Finger-Safe Fuse Holders <small>(26 24 16 00-0473)</small> Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0475	EA	1 Pole Midget Finger-Safe Fuse Holder	87.44	26.62
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0476 EA 1 Pole With Indicator Midget Finger-Safe Fuse Holder.....	100.84	26.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.75	
26 24 16 00-0477 EA 2 Pole Midget Finger-Safe Fuse Holder.....	139.68	39.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.62	
26 24 16 00-0478 EA 2 Pole With Indicators Midget Finger-Safe Fuse Holder.....	174.65	39.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.62	
26 24 16 00-0479 EA 3 Pole Midget Finger-Safe Fuse Holder.....	202.76	53.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 24 16 00-0480 EA 3 Pole With Indicators Midget Finger-Safe Fuse Holder.....	249.21	53.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 24 16 00-0481 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder.....	288.06	53.25
Note: With indicators.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 24 16 00-0482 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder.....	236.56	53.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 24 16 00-0483 EA 4 Pole Midget Finger-Safe Fuse Holder.....	255.14	66.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.37	
26 24 16 00-0484 EA 4 Pole With Indicator Midget Finger-Safe Fuse Holder.....	306.15	66.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.37	
26 24 16 00-0485 EA 12 To 24 Volt DC Midget Finger-Safe Fuse Holder.....	100.88	26.62
Note: With indicator.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.75	
26 24 16 00-0486 EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder.....	108.00	26.62
Note: With indicator.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.75	
26 24 16 00-0487 EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder.....	102.19	26.62
Note: With indicator.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.75	
26 24 16 00-0488 Removal And Reinstallation Of Panelboards <small>(26 24 16 00-0001)</small>		
Note: Includes storage, cleaning and supply materials.		
26 24 16 00-0489 EA Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers.....	1,854.50	
Note: Includes removal and reinstallation of main wiring to panelboard.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	554.64	
26 24 16 00-0490 EA Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage.....	97.77	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.84	
26 24 16 00-0491 EA Panelboard Filler Plate, Fits 1" Opening.....	6.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.39	
26 24 19 Motor-Control Centers <small>(26 24)</small>		
26 24 19 00-0001 Combination Starters With Molded Case Circuit Breakers <small>(26 24 19)</small>		
Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		
26 24 19 00-0002 230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 1-Speed non-reversing.		
26 24 19 00-0003 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit.....	2,393.35	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.08	
26 24 19 00-0004 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit.....	2,826.59	141.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.14	
26 24 19 00-0005 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit.....	4,179.24	148.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.19	
26 24 19 00-0006 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit.....	7,535.60	175.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.41	
26 24 19 00-0007 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit.....	15,111.44	202.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.63	
26 24 19 00-0008 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit.....	25,393.32	270.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.17	
26 24 19 00-0009 480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 1-Speed non-reversing.		
26 24 19 00-0010 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit.....	2,393.35	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.08	
26 24 19 00-0011 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit.....	2,826.59	141.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.14	
26 24 19 00-0012 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit.....	4,179.24	148.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.19	
26 24 19 00-0013 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit.....	7,535.60	175.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.41	
26 24 19 00-0014 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit.....	15,111.44	202.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.63	
26 24 19 00-0015 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit.....	25,393.32	270.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.17	
26 24 19 00-0016 230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0017 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit.....	3,441.56	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.08	
26 24 19 00-0018 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit.....	4,569.91	141.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.14	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0019 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit.....	6,526.60	148.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.19	
26 24 19 00-0020 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit.....	11,381.99	175.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.41	
26 24 19 00-0021 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit.....	22,340.09	202.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.63	
26 24 19 00-0022 EA 230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit.....	38,464.84	270.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.17	
26 24 19 00-0023 480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0024 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit.....	3,441.56	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.08	
26 24 19 00-0025 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit.....	4,569.91	141.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.14	
26 24 19 00-0026 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit.....	6,526.60	148.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.19	
26 24 19 00-0027 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit.....	11,381.99	175.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.41	
26 24 19 00-0028 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit.....	22,340.09	202.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.63	
26 24 19 00-0029 EA 480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit.....	38,464.84	270.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.17	
26 24 19 00-0030 230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit.....	4,209.99	216.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.73	
26 24 19 00-0032 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit.....	5,760.48	229.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.84	
26 24 19 00-0033 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit.....	8,439.10	243.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	145.94	
26 24 19 00-0034 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....	15,011.36	277.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	166.22	
26 24 19 00-0035 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit.....	24,808.58	324.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	194.61	
26 24 19 00-0036 480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit.....	4,209.99	216.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.73	
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit.....	5,760.48	229.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.84	
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....	8,439.10	243.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	145.94	
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit.....	15,011.36	277.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	166.22	
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit.....	24,808.58	324.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	194.61	
26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit.....	4,811.78	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.08	
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit.....	7,134.91	141.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.14	
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit.....	9,746.73	148.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.19	
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....	18,264.19	175.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.41	
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit.....	31,598.52	202.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.63	
26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit.....	4,811.78	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.08	
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit.....	7,134.91	141.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.14	
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....	9,746.73	148.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.19	
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit.....	18,264.19	175.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.41	
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit.....	31,598.52	202.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.63	
26 24 19 00-0054 230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
Note: Reducing volt, auto-transformer.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit.....	7,090.49	141.90
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit.....	10,828.45	155.41
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit.....	18,213.11	175.69
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit.....	28,142.99	202.71
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit.....	48,111.92	270.28
26 24 19 00-0060 480 Volt Combination With Molded Case Circuit ^(26 24 19 00-0001)		
Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit.....	7,090.49	141.90
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit.....	10,828.45	155.41
26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit.....	18,213.11	175.69
26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit.....	28,142.99	202.71
26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit.....	48,111.92	270.28
26 24 19 00-0066 230 Volt Combination With Molded Case Circuit ^(26 24 19 00-0001)		
Note: Reducing volt, part winding.		
26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit.....	4,896.21	216.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		129.73
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit.....	6,311.78	250.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		150.00
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit.....	11,025.05	277.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		166.22
26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	18,730.66	337.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		202.71
26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	25,717.69	432.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		259.48
26 24 19 00-0072 480 Volt Combination With Molded Case Circuit ^(26 24 19 00-0001)		
Note: Reducing volt, part winding.		
26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit.....	4,896.21	216.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		129.73
26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit.....	6,311.78	250.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		150.00
26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	11,025.05	277.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		166.22
26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	18,730.66	337.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		202.71
26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit.....	25,717.69	432.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		259.48
26 24 19 00-0078 230 Volt Combination With Molded Case Circuit ^(26 24 19 00-0001)		
Note: Reducing volt, energy saver.		
26 24 19 00-0079 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit.....	19,907.57	175.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		105.41
26 24 19 00-0080 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit.....	21,132.34	216.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		129.73
26 24 19 00-0081 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit.....	23,340.74	250.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		150.00
26 24 19 00-0082 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	35,293.75	277.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		166.22
26 24 19 00-0083 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	48,116.04	337.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		202.71
26 24 19 00-0084 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	65,285.35	432.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		259.48
26 24 19 00-0085 480 Volt Combination With Molded Case Circuit ^(26 24 19 00-0001)		
Note: Reducing volt, energy saver.		
26 24 19 00-0086 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit.....	19,907.57	175.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		105.41
26 24 19 00-0087 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit.....	21,132.34	216.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		129.73
26 24 19 00-0088 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	23,340.74	250.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		150.00
26 24 19 00-0089 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	35,293.75	277.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		166.22
26 24 19 00-0090 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	48,116.04	337.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		202.71

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0091 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65,285.35 259.48	432.45
26 24 19 00-0092 Combination Starters With Current Limiting Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
26 24 19 00-0093 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,181.72 81.08	135.14
26 24 19 00-0095 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,614.97 85.14	141.90
26 24 19 00-0096 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,558.34 89.19	148.66
26 24 19 00-0097 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,198.31 105.41	175.69
26 24 19 00-0098 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,207.21 121.63	202.71
26 24 19 00-0099 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,650.56 162.17	270.28
26 24 19 00-0100 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0101 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,181.72 81.08	135.14
26 24 19 00-0102 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,614.97 85.14	141.90
26 24 19 00-0103 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,558.34 89.19	148.66
26 24 19 00-0104 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,198.31 105.41	175.69
26 24 19 00-0105 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,207.21 121.63	202.71
26 24 19 00-0106 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,650.56 162.17	270.28
26 24 19 00-0107 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed reversing.		
26 24 19 00-0108 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,223.27 81.08	135.14
26 24 19 00-0109 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,342.74 85.14	141.90
26 24 19 00-0110 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,874.62 89.19	148.66
26 24 19 00-0111 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,009.18 105.41	175.69
26 24 19 00-0112 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,373.67 121.63	202.71
26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed reversing.		
26 24 19 00-0114 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,223.27 81.08	135.14
26 24 19 00-0115 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,342.74 85.14	141.90
26 24 19 00-0116 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,874.62 89.19	148.66
26 24 19 00-0117 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,009.18 105.41	175.69
26 24 19 00-0118 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,373.67 121.63	202.71
26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,978.38 129.73	216.23
26 24 19 00-0121 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,517.77 137.84	229.74
26 24 19 00-0122 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,764.90 145.94	243.26
26 24 19 00-0123 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,607.45 166.22	277.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0124 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,817.74 194.61	324.33
26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,978.38 129.73	216.23
26 24 19 00-0127 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,517.77 137.84	229.74
26 24 19 00-0128 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,764.90 145.94	243.26
26 24 19 00-0129 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,607.45 166.22	277.04
26 24 19 00-0130 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,817.74 194.61	324.33
26 24 19 00-0131 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0132 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,715.32 121.63	202.71
26 24 19 00-0133 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,027.51 129.73	216.23
26 24 19 00-0134 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,228.05 137.84	229.74
26 24 19 00-0135 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,004.86 158.11	263.53
26 24 19 00-0136 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,763.96 186.50	310.83
26 24 19 00-0137 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0138 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,715.32 121.63	202.71
26 24 19 00-0139 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,027.51 129.73	216.23
26 24 19 00-0140 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,228.05 137.84	229.74
26 24 19 00-0141 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,004.86 158.11	263.53
26 24 19 00-0142 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,763.96 186.50	310.83
26 24 19 00-0143 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, auto-transformer.		
26 24 19 00-0144 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,836.68 85.14	141.90
26 24 19 00-0145 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,587.31 93.25	155.41
26 24 19 00-0146 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,235.60 105.41	175.69
26 24 19 00-0147 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,142.62 121.63	202.71
26 24 19 00-0148 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52,857.73 162.17	270.28
26 24 19 00-0149 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, auto-transformer.		
26 24 19 00-0150 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,836.68 85.14	141.90
26 24 19 00-0151 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,587.31 93.25	155.41
26 24 19 00-0152 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,235.60 105.41	175.69

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0153 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,142.62 121.63	202.71
26 24 19 00-0154 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52,857.73 162.17	270.28
26 24 19 00-0155 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, part winding.		
26 24 19 00-0156 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,664.60 129.73	216.23
26 24 19 00-0157 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,064.63 150.00	250.01
26 24 19 00-0158 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,341.98 166.22	277.04
26 24 19 00-0159 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,790.90 202.71	337.85
26 24 19 00-0160 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,117.99 259.48	432.45
26 24 19 00-0161 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, part winding.		
26 24 19 00-0162 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,664.60 129.73	216.23
26 24 19 00-0163 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,064.63 150.00	250.01
26 24 19 00-0164 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,341.98 166.22	277.04
26 24 19 00-0165 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,790.90 202.71	337.85
26 24 19 00-0166 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,117.99 259.48	432.45
26 24 19 00-0167 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0168 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,544.93 105.41	175.69
26 24 19 00-0169 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,763.04 129.73	216.23
26 24 19 00-0170 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,949.23 150.00	250.01
26 24 19 00-0171 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,797.87 166.22	277.04
26 24 19 00-0172 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,506.90 202.71	337.85
26 24 19 00-0173 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67,965.84 259.48	432.45
26 24 19 00-0174 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0175 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,544.99 105.43	175.69
26 24 19 00-0176 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,763.04 129.73	216.23
26 24 19 00-0177 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,949.23 150.00	250.01
26 24 19 00-0178 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,797.87 166.22	277.04
26 24 19 00-0179 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,506.90 202.71	337.85
26 24 19 00-0180 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67,965.84 259.48	432.45
26 24 19 00-0181 Combination Starters With Fusible Switch <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed non-reversing.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0183 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,135.74	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>81.08</i>	
26 24 19 00-0184 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,926.53	141.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>85.14</i>	
26 24 19 00-0185 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,894.33	148.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>89.19</i>	
26 24 19 00-0186 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,594.91	175.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>105.41</i>	
26 24 19 00-0187 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	13,916.66	202.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>121.63</i>	
26 24 19 00-0188 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	24,782.61	270.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>162.17</i>	
26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
<i>Note: 1-Speed non-reversing.</i>		
26 24 19 00-0190 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,135.74	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>81.08</i>	
26 24 19 00-0191 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,926.53	141.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>85.14</i>	
26 24 19 00-0192 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,894.33	148.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>89.19</i>	
26 24 19 00-0193 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,594.91	175.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>105.41</i>	
26 24 19 00-0194 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	13,916.66	202.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>121.63</i>	
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	24,782.61	270.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>162.17</i>	
26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
<i>Note: 1-Speed reversing.</i>		
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	3,412.69	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>81.08</i>	
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	5,058.48	141.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>85.14</i>	
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	8,058.94	148.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>89.19</i>	
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	13,105.32	175.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>105.41</i>	
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	20,132.63	202.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>121.63</i>	
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	34,189.84	270.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>162.17</i>	
26 24 19 00-0203 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
<i>Note: 1-Speed reversing.</i>		
26 24 19 00-0204 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,412.69	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>81.08</i>	
26 24 19 00-0205 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	5,058.48	141.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>85.14</i>	
26 24 19 00-0206 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	8,058.94	148.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>89.19</i>	
26 24 19 00-0207 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	13,105.32	175.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>105.41</i>	
26 24 19 00-0208 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	20,132.63	202.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>121.63</i>	
26 24 19 00-0209 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	34,189.84	270.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>162.17</i>	
26 24 19 00-0210 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
<i>Note: 2-Speed non-reversing, 2 wind.</i>		
26 24 19 00-0211 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	4,023.44	216.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>129.73</i>	
26 24 19 00-0212 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	5,502.87	229.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>137.84</i>	
26 24 19 00-0213 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	8,605.66	243.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>145.94</i>	
26 24 19 00-0214 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	15,300.06	277.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>166.22</i>	
26 24 19 00-0215 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	24,322.23	324.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>194.61</i>	
26 24 19 00-0216 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
<i>Note: 2-Speed non-reversing, 2 wind.</i>		
26 24 19 00-0217 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	4,023.44	216.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>129.73</i>	
26 24 19 00-0218 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	5,502.87	229.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>137.84</i>	
26 24 19 00-0219 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	8,605.66	243.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>145.94</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0220 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,300.06 166.22	277.04
26 24 19 00-0221 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,322.23 194.61	324.33
26 24 19 00-0222 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,540.84 81.08	135.14
26 24 19 00-0224 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,895.07 85.14	141.90
26 24 19 00-0225 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,902.19 89.19	148.66
26 24 19 00-0226 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,903.13 105.41	175.69
26 24 19 00-0227 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,540.84 81.08	135.14
26 24 19 00-0229 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,895.07 85.14	141.90
26 24 19 00-0230 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,902.19 89.19	148.66
26 24 19 00-0231 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,903.13 105.41	175.69
26 24 19 00-0232 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Auto-transformer.		
26 24 19 00-0233 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,848.43 85.14	141.90
26 24 19 00-0234 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,047.66 93.25	155.41
26 24 19 00-0235 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,034.15 105.41	175.69
26 24 19 00-0236 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,735.01 121.63	202.71
26 24 19 00-0237 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,882.90 162.17	270.28
26 24 19 00-0238 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Auto-transformer.		
26 24 19 00-0239 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,848.43 85.14	141.90
26 24 19 00-0240 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,047.66 93.25	155.41
26 24 19 00-0241 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,034.15 105.41	175.69
26 24 19 00-0242 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,735.01 121.63	202.71
26 24 19 00-0243 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,882.90 162.17	270.28
26 24 19 00-0244 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Part winding.		
26 24 19 00-0245 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,925.08 129.73	216.23
26 24 19 00-0246 EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,502.77 150.00	250.01
26 24 19 00-0247 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,296.64 166.22	277.04
26 24 19 00-0248 EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,425.12 202.71	337.85
26 24 19 00-0249 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Part winding.		
26 24 19 00-0250 EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,925.08 129.73	216.23
26 24 19 00-0251 EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,502.77 150.00	250.01
26 24 19 00-0252 EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,296.64 166.22	277.04
26 24 19 00-0253 EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,425.12 202.71	337.85



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0254 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Energy saver.		
26 24 19 00-0255 EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	19,905.35	175.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	105.41	
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	21,132.34	216.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	129.73	
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	23,340.74	250.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	150.00	
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	35,293.75	277.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	166.22	
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	48,116.04	337.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	202.71	
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	65,285.35	432.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	259.48	
26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	19,905.35	175.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	105.41	
26 24 19 00-0263 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	21,132.34	216.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	129.73	
26 24 19 00-0264 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	23,340.74	250.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	150.00	
26 24 19 00-0265 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	35,293.75	277.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	166.22	
26 24 19 00-0266 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	48,116.04	337.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	202.71	
26 24 19 00-0267 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	65,285.35	432.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	259.48	
26 24 19 00-0268 Starter Accessories <small>(26 24 19)</small>		
Note: Additional options or accessories for the Combination Starters		
26 24 19 00-0269 Starter Modifications <small>(26 24 19 00-0268)</small>		
26 24 19 00-0270 EA Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer	181.41	
26 24 19 00-0271 EA Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer	346.44	
26 24 19 00-0272 EA Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer	495.23	
26 24 19 00-0273 EA Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes	124.36	
26 24 19 00-0274 EA Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes	175.44	
26 24 19 00-0275 EA Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes	295.36	
26 24 19 00-0276 EA Overload Relay Heater Elements, 3 Per Starter	73.29	
26 24 19 00-0277 EA N.O. Overload Relay Alarm	62.18	
26 24 19 00-0278 EA Control Circuit Fuses, Primary/Secondary	117.16	
26 24 19 00-0279 EA Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton	144.85	
26 24 19 00-0280 EA Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton	283.31	
26 24 19 00-0281 EA Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select	144.85	
26 24 19 00-0282 EA Control Devices Type PB2 Mount On Device, Individual Light Full V	166.15	
26 24 19 00-0283 EA Control Devices Type PB2 Mount On Device, Individual Light Transformer	200.24	
26 24 19 00-0284 EA Control Devices Type PB2 Mount On Device, Individual Light Push To	236.45	
26 24 19 00-0285 EA Blank Devices Panel	44.73	
26 24 19 00-0286 EA Oversize Or Special Color Starter	70.30	
26 24 19 00-0287 EA Mini Voltmeter/Ammeter With Current Transformer	626.34	
26 24 19 00-0288 EA Mini Elapsed Time Meters, Non Resettable	568.83	
26 24 19 00-0289 EA Panel Elapsed Time Meter, Resettable	830.77	
26 24 19 00-0290 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Press	70.30	
26 24 19 00-0291 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw	100.12	
26 24 19 00-0292 EA Terminal Blocks, Front Mounted, Press Connection, Standard	70.30	
26 24 19 00-0293 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In	100.12	
26 24 19 00-0294 EA Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility	100.12	
26 24 19 00-0295 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type	144.85	
26 24 19 00-0296 EA MOR - A Solid State Modular Overload Relay	360.00	
26 24 19 00-0297 EA Heater Module	76.75	
26 24 19 00-0298 EA LAM - Long Acceleration Module	476.79	
26 24 19 00-0299 EA JAM - Jam Protection Module	546.57	
26 24 19 00-0300 EA PUM - Phase Unbalance Module	1,037.32	
26 24 19 00-0301 EA ULM - Underload Module	497.73	
26 24 19 00-0302 EA Wiring To Common Control Circuit Transformer	109.31	
26 24 19 00-0303 EA Handle Operator Separable Source Control Circuit	204.67	
26 24 19 00-0304 EA Type SIS Control Wire	86.06	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0305 EA Ring Or Spade Terminals Control.....	109.31	
26 24 19 00-0306 EA Ring Terminals Power.....	109.31	
26 24 19 00-0307 EA 14 Gauge Control Wire.....	86.06	
26 24 19 00-0308 EA Wiremakers.....	109.31	
26 24 19 00-0309 EA Wiring Diagram On Door.....	65.12	
26 24 19 00-0310 EA Special Color Or Type Control Wire.....	79.08	
26 24 19 00-0311 EA Current Transformer 12.5 VA.....	621.00	
26 24 19 00-0312 EA Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4.....	1,983.93	
26 24 19 00-0313 EA Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6.....	2,232.80	
26 24 19 00-0314 Control Relays And Special Components (26 24 19 00-0268)		
26 24 19 00-0315 EA 600 Volt, 2 Pole, Control Relays.....	573.86	
26 24 19 00-0316 EA 600 Volt, 4 Pole, Control Relays.....	681.53	
26 24 19 00-0317 EA 600 Volt, 6 Pole, Control Relays.....	802.71	
26 24 19 00-0318 EA 600 Volt, 8 Pole, Control Relays.....	895.72	
26 24 19 00-0319 EA Pneumatic Timer, Control Relays.....	753.25	
26 24 19 00-0320 EA Motor Driven Timer, Control Relays.....	1,962.85	
26 24 19 00-0321 EA 7 Days Time Switch, Control Relays.....	2,470.52	
26 24 19 00-0322 EA 24 Hour Time Switch, Control Relays.....	692.77	
26 24 19 00-0323 EA Phase Voltage, Control Relays.....	1,178.44	
26 24 19 00-0324 EA Two Circuit Alternator, Control Relays.....	1,649.46	
26 24 19 00-0325 EA Manual 120 Volt, Control Relays.....	161.28	
26 24 19 00-0326 EA Over-Current Relay, Control Relays.....	4,437.68	
26 24 19 00-0327 EA UV-Relay, Control Relays.....	3,758.54	
26 24 19 00-0328 EA Over-Current Relay, Control Relays.....	3,758.54	
26 24 19 00-0329 EA Teleductor, Control Relays.....	1,215.10	
26 24 19 00-0330 EA Current Transducer, Control Relays.....	3,267.75	
26 24 19 00-0331 EA Watt Transducer, Control Relays.....	6,535.51	
26 24 19 00-0332 EA Control Relays, Blank, Add For Each 1x.....	221.76	
26 24 19 00-0333 EA Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway.....	331.72	
26 24 19 00-0334 EA Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway.....	373.88	
26 24 19 00-0335 EA Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway.....	416.03	
26 24 19 00-0336 EA Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway.....	373.88	
26 24 19 00-0337 EA Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway.....	416.03	
26 24 19 00-0338 EA Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway.....	438.02	
26 24 19 00-0339 Circuit Breaker Modifications/Accessories (26 24 19 00-0268)		
26 24 19 00-0340 EA Shunt Trip, Circuit Breaker.....	363.29	
26 24 19 00-0341 EA Auxiliary Switch, Circuit Breaker.....	125.48	
26 24 19 00-0342 EA Key Interlock, Circuit Breaker.....	451.33	
26 24 19 00-0343 EA GFR Ground Fault, Circuit Breaker.....	2,080.56	
26 24 19 00-0344 EA Seltronic Breaker, Circuit Breaker.....	1,205.23	
26 24 19 00-0345 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)		
26 24 19 00-0346 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100.....	1,543.25	87.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0347 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150.....	2,666.74	135.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.08	
26 24 19 00-0348 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100.....	2,555.08	87.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0349 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150.....	3,676.44	135.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.08	
26 24 19 00-0350 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150.....	4,707.45	135.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.08	
26 24 19 00-0351 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250.....	2,943.86	175.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.43	
26 24 19 00-0352 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400.....	4,738.94	189.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.54	
26 24 19 00-0353 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600.....	6,248.45	243.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.89	
26 24 19 00-0354 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800.....	7,383.30	371.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	223.06	
26 24 19 00-0355 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200.....	10,469.80	560.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	336.77	
26 24 19 00-0356 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000.....	22,763.67	743.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	445.58	
26 24 19 00-0357 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500.....	33,945.88	932.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	558.96	
26 24 19 00-0358 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000.....	56,451.82	1,080.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	649.23	
26 24 19 00-0359 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	1,847.86	87.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0360 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150.....	2,962.83	135.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.08	
26 24 19 00-0361 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	1,847.86	87.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0362 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50.....	2,962.83	135.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0363 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150.....	3,119.58	87.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.70	
26 24 19 00-0364 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150.....	4,277.15	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.08	
26 24 19 00-0365 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	5,295.38	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.08	
26 24 19 00-0366 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100	2,815.85	135.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.08	
26 24 19 00-0367 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400	7,144.72	371.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	223.06	
26 24 19 00-0368 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225	7,144.72	371.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	223.06	
26 24 19 00-0369 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400	9,586.85	405.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	243.15	
26 24 19 00-0370 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600	11,958.63	472.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	283.67	
26 24 19 00-0371 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800	13,767.33	560.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	336.77	
26 24 19 00-0372 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)		
26 24 19 00-0373 EA 30 To 60 Amperes, Incoming Line And Feeder Fusible Switches.....	1,912.32	135.14
26 24 19 00-0374 EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual	2,933.35	135.14
26 24 19 00-0375 EA 100 Amperes, Incoming Line And Feeder Fusible Switches.....	2,676.79	168.92
26 24 19 00-0376 EA 200 Amperes, Incoming Line And Feeder Fusible Switches.....	4,322.92	202.71
26 24 19 00-0377 EA 400 Amperes, Incoming Line And Feeder Fusible Switches.....	8,461.38	256.76
26 24 19 00-0378 EA 600 Amperes, Incoming Line And Feeder Fusible Switches.....	11,859.17	337.85
26 24 19 00-0379 EA 800 Amperes, Incoming Line And Feeder Fusible Switches.....	28,688.80	452.72
26 24 19 00-0380 EA 1,200 Amperes, Incoming Line And Feeder Fusible Switches.....	32,417.32	628.41
26 24 19 00-0381 Dry Type Distribution Transformers (26 24 19 00-0268)		
26 24 19 00-0382 EA 500 VA, Phase 1, Dry Type Distribution Transformers	1,452.78	
26 24 19 00-0383 EA 750 VA, Phase 1, Dry Type Distribution Transformers	1,499.65	
26 24 19 00-0384 EA 1,000 VA, Phase 1, Dry Type Distribution Transformers	1,548.64	
26 24 19 00-0385 EA 1,500 VA, Phase 1, Dry Type Distribution Transformers	1,776.57	
26 24 19 00-0386 EA 2,000 VA, Phase 1, Dry Type Distribution Transformers	1,925.69	
26 24 19 00-0387 EA 3,000 VA, Phase 1, Dry Type Distribution Transformers	2,495.61	
26 24 19 00-0388 EA 5,000 VA, Phase 1, Dry Type Distribution Transformers	2,620.12	
26 24 19 00-0389 EA 7,500 VA, Phase 1, Dry Type Distribution Transformers	2,952.43	
26 24 19 00-0390 EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	6,863.45	
26 24 19 00-0391 EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	3,642.61	
26 24 19 00-0392 EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	5,046.40	
26 24 19 00-0393 EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	7,864.64	
26 24 19 00-0394 EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	7,283.10	
26 24 19 00-0395 EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	10,092.81	
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	11,931.50	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	16,527.34	
26 24 19 00-0398 Metering Equipment (26 24 19 00-0268)		
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type	685.92	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type.....	1,499.65	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel.....	617.75	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type.....	1,499.65	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch	832.90	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits.....	884.03	
26 24 19 00-0405 EA Add For Additional Circuits	127.92	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter	3,093.03	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor	3,240.01	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour	2,856.58	
26 24 19 00-0409 EA Add For Demand Attachment	837.30	
26 24 19 00-0410 EA 800 Amperes, Metering Equipment, Current Transformer	854.20	
26 24 19 00-0411 EA 1,000 Amperes, Metering Equipment, Current Transformer	1,474.09	
26 24 19 00-0412 EA 2,000 Amperes, Metering Equipment, Current Transformer	1,716.93	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer	1,431.48	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester	1,540.12	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System	1,177.99	
26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)		
26 24 19 00-0417 EA 600 Amperes, Current Limiting Reactors.....	26,292.85	
26 24 19 00-0418 EA 800 Amperes, Current Limiting Reactors.....	38,290.04	
26 24 19 00-0419 EA 1,000 Amperes, Current Limiting Reactors.....	50,314.92	
26 24 19 00-0420 EA 1,200 Amperes, Current Limiting Reactors.....	76,588.60	
26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw	481.91	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp.....	481.91	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw	666.24	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp.....	1,219.21	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw.....	666.24	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp.....	850.56	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw.....	850.56	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp.....	1,216.99	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw.....	850.56	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp.....	1,216.99	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw.....	1,034.88	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp.....	3,355.60	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw.....	1,034.88	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp.....	1,216.99	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw.....	3,355.60	
26 24 19 00-0437 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp.....	3,355.60	
26 24 19 00-0438 EA Bus Duct Transition Pull Box.....	1,015.35	
26 24 19 00-0439 EA Throat And Transition To Substation.....	1,960.12	
26 24 19 00-0440 EA Service Entrance Label.....	424.49	
26 24 19 00-0441 EA Type W To 5 Star - 10" Transition.....	887.30	
26 24 19 00-0442 EA 600 Amperes, Sub Feed Lugs On Main Bus.....	555.87	
26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)		
26 24 19 00-0444 EA Standard Structure Add For Each Additional 4" Of Structure Width.....	280.30	
26 24 19 00-0445 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4".....	280.30	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 16" Depth.....	867.13	
26 24 19 00-0447 EA Standard Structure Single Corner Section "L", 21" Depth.....	978.04	
26 24 19 00-0448 EA Standard Structure Unused Space/Future Space.....	83.69	
26 24 19 00-0449 EA Standard Structure NEMA 12 Dustproof.....	225.86	
26 24 19 00-0450 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure.....	47.39	
26 24 19 00-0451 EA Standard Structure 150 Watt Space.....	203.67	
26 24 19 00-0452 EA Standard Structure Thermostat For Space Heater Control.....	676.82	
26 24 19 00-0453 EA Standard Structure Rear Hinged Structure Door, 72" High.....	203.67	
26 24 19 00-0454 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC.....	437.26	
26 24 19 00-0455 EA Standard Structure NEMA 3R N-Walk In Front Mounted.....	6,237.87	
26 24 19 00-0456 EA Standard Structure NEMA 3R N-Walk In Back-to-back.....	7,210.07	
26 24 19 00-0457 EA Standard Structure NEMA 3R Walk-In Aisle Front Mounted.....	7,217.05	
26 24 19 00-0458 Installation Hours For Vertical Sections (26 24 19 00-0268)		
26 24 19 00-0459 EA Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes.....	810.81	405.42
26 24 19 00-0460 EA Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes.....	1,216.21	608.14
26 24 19 00-0461 EA Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes.....	1,351.41	675.71
26 24 19 00-0462 EA Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes.....	1,621.83	810.85
26 24 19 00-0463 EA Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes.....	135.14	67.57
26 24 19 00-0464 EA Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes.....	810.81	405.42
26 24 19 00-0465 EA Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes.....	1,216.21	608.14
26 24 19 00-0466 EA Install Vertical Section, 230/480 Volt, 3 Section, 800 Amperes.....	1,351.41	675.71
26 24 19 00-0467 EA Install Vertical Section, 230/480 Volt, 4 Section, 800 Amperes.....	1,621.83	810.85
26 24 19 00-0468 EA Bolt To Floor, Vertical Section, 230/480 Volt, 800 Amperes.....	135.14	67.57
26 24 19 00-0469 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amperes.....	946.01	472.99
26 24 19 00-0470 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amperes.....	1,216.21	608.14
26 24 19 00-0471 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amperes.....	1,621.83	810.85
26 24 19 00-0472 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amperes.....	1,891.73	945.85
26 24 19 00-0473 EA Bolt To Floor, Vertical Section, 230/480 Volt, 1,200 Amperes.....	202.71	101.35
26 24 19 00-0474 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amperes.....	1,081.13	540.56
26 24 19 00-0475 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amperes.....	1,486.67	743.28
26 24 19 00-0476 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amperes.....	1,891.73	945.85
26 24 19 00-0477 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amperes.....	2,161.88	1,080.99
26 24 19 00-0478 EA Bolt To Floor, Vertical Section, 230/480 Volt, 1,600 Amperes.....	270.28	135.14
26 24 19 00-0479 EA Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amperes.....	1,081.13	540.56
26 24 19 00-0480 EA Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amperes.....	1,621.83	810.85
26 24 19 00-0481 EA Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amperes.....	2,026.90	1,013.42
26 24 19 00-0482 EA Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amperes.....	2,297.54	1,148.83
26 24 19 00-0483 EA Bolt To Floor, Vertical Section, 230/480 Volt, 2,000 Amperes.....	270.28	135.14
26 24 19 00-0484 Motor Control Centers (26 24 19)		
26 24 19 00-0485 2.4 KV Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0486 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp.....	16,453.16	270.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.17	
EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp.....	16,453.16	270.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.17	
EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp.....	16,453.16	270.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.17	
EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp.....	16,520.77	304.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.45	
EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp.....	17,551.82	337.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	202.71	
EA 2,400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp.....	17,619.36	371.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	222.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0492 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,686.92 243.24	405.42
26 24 19 00-0493 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,822.12 283.80	472.99
26 24 19 00-0494 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,957.24 324.34	540.56
26 24 19 00-0495 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,102.19 364.86	608.14
26 24 19 00-0496 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,320.14 405.42	675.71
26 24 19 00-0497 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,352.03 162.17	270.28
26 24 19 00-0498 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,373.63 174.34	290.55
26 24 19 00-0499 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,820.40 190.55	317.58
26 24 19 00-0500 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,072.67 202.71	337.85
26 24 19 00-0501 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,905.92 235.16	391.91
26 24 19 00-0502 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38,239.78 251.36	418.93
26 24 19 00-0503 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,571.68 267.56	445.97
26 24 19 00-0504 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45,528.31 291.91	486.50
26 24 19 00-0505 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52,968.85 324.34	540.56
26 24 19 00-0506 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57,383.01 344.63	574.35
26 24 19 00-0507 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87,542.21 405.42	675.71
26 24 19 00-0508 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	93,283.37 446.00	743.28
26 24 19 00-0509 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98,284.77 486.55	810.85
26 24 19 00-0510 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107,019.69 527.14	878.55
26 24 19 00-0511 EA 2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,983.65 162.17	270.28
26 24 19 00-0512 EA 2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,051.26 182.45	304.06
26 24 19 00-0513 EA 2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,118.80 202.71	337.85
26 24 19 00-0514 EA 2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,186.34 222.98	371.63
26 24 19 00-0515 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,257.79 243.24	405.42
26 24 19 00-0516 EA 2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,325.43 263.54	439.20
26 24 19 00-0517 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,392.99 283.80	472.99
26 24 19 00-0518 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,663.19 364.86	608.14
26 24 19 00-0519 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,154.79 405.42	675.71
26 24 19 00-0520 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,290.05 446.00	743.28
26 24 19 00-0521 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,496.28 486.55	810.85
26 24 19 00-0522 EA Add For Reversing Starters, 100 To 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,048.97 81.08	
26 24 19 00-0523 EA Add For Reversing Starters, 1,000 To 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,321.48 81.08	
26 24 19 00-0524 EA Add For Reversing Starters, 1,750 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,236.38 81.08	
26 24 19 00-0525 4.8 KV Motor Control Centers <small>(26 24 19 00-0484)</small>		
26 24 19 00-0526 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,959.43 243.24	405.42
26 24 19 00-0527 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,027.07 263.54	439.20
26 24 19 00-0528 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,094.63 283.80	472.99
26 24 19 00-0529 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,162.23 304.08	506.77
26 24 19 00-0530 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,183.53 324.34	540.56
26 24 19 00-0531 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,251.17 344.63	574.35
26 24 19 00-0532 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,318.61 364.86	608.14

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24	19 00-0533	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,386.31 385.17	641.92
26 24	19 00-0534	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,453.81 405.42	675.71
26 24	19 00-0535	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,832.93 527.14	878.55
26 24	19 00-0536	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,967.52 567.52	945.85
26 24	19 00-0537	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,175.71 608.07	1,013.42
26 24	19 00-0538	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,310.69 648.56	1,080.99
26 24	19 00-0539	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,898.68 243.24	405.42
26 24	19 00-0540	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,238.83 263.54	439.20
26 24	19 00-0541	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,413.50 283.80	472.99
26 24	19 00-0542	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,683.08 304.08	506.77
26 24	19 00-0543	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,475.70 324.34	540.56
26 24	19 00-0544	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38,823.18 344.63	574.35
26 24	19 00-0545	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,966.08 364.86	608.14
26 24	19 00-0546	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46,111.69 385.17	641.92
26 24	19 00-0547	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53,381.22 405.42	675.71
26 24	19 00-0548	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58,326.74 425.70	709.49
26 24	19 00-0549	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63,339.82 466.25	777.06
26 24	19 00-0550	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67,473.70 486.55	810.85
26 24	19 00-0551	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71,373.79 506.78	844.63
26 24	19 00-0552	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	76,823.72 527.14	878.55
26 24	19 00-0553	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121,628.01 648.56	1,080.99
26 24	19 00-0554	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135,233.41 689.26	1,148.83
26 24	19 00-0555	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162,473.24 729.73	1,216.27
26 24	19 00-0556	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	171,826.15 729.73	1,216.27
26 24	19 00-0557	EA	4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,621.23 283.80	472.99
26 24	19 00-0558	EA	4.8 KV CL 14-202, Synchronous Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,688.83 304.08	506.77
26 24	19 00-0559	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,756.35 324.34	540.56
26 24	19 00-0560	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,823.99 344.63	574.35
26 24	19 00-0561	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,943.03 364.86	608.14
26 24	19 00-0562	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,010.73 385.17	641.92
26 24	19 00-0563	EA	4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,078.23 405.42	675.71
26 24	19 00-0564	EA	4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,145.83 425.70	709.49
26 24	19 00-0565	EA	4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,213.49 446.00	743.28
26 24	19 00-0566	EA	4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,618.55 567.52	945.85
26 24	19 00-0567	EA	4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,382.63 608.07	1,013.42
26 24	19 00-0568	EA	4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46,580.89 648.56	1,080.99
26 24	19 00-0569	EA	4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46,580.89 648.56	1,080.99
26 24	19 00-0570	EA	Add For Reversing Starters, 100 To 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,286.00 81.08	
26 24	19 00-0571	EA	Add For Reversing Starters, 1,500 To 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,596.91 81.08	
26 24	19 00-0572	EA	Add For Reversing Starters, 3,000 To 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,204.39 81.08	
26 24	19 00-0573		2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0484)		
	26 24 19 00-0574	EA	2.4/4.8 KV Load Break Disconnect Switch 600 Amperes.....	13,421.09	270.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0575 EA 2.4/4.8 KV Load Break Disconnect Switch 1,200 Amperes	16,158.63	405.42
26 24 19 00-0576 EA 2.4/4.8 KV NEMA 3 Weather Resistant	5,243.26	
26 24 19 00-0577 EA 2.4/4.8 KV Space Heaters	273.10	20.27
26 24 19 00-0578 EA 2.4/4.8 KV Potential Transformer Fused.....	1,519.01	
26 24 19 00-0579 EA 2.4/4.8 KV Current Transformer 600 Volt, 5 KVA	815.03	
26 24 19 00-0580 EA 2.4/4.8 KV Control Transformer 4 KVA Max	2,427.31	
26 24 19 00-0581 EA 2.4/4.8 KV Pushbuttons Each	155.45	
26 24 19 00-0582 EA 2.4/4.8 KV Selector Switch Each	515.22	
26 24 19 00-0583 EA 2.4/4.8 KV Indicating Light.....	155.45	
26 24 19 00-0584 EA 2.4/4.8 KV Push To Test Light	470.81	
26 24 19 00-0585 EA 2.4/4.8 KV AC Voltmeter, Switchboard Type	1,252.52	
26 24 19 00-0586 EA 2.4/4.8 KV AC Ammeter, Switchboard Type	1,252.52	
26 24 19 00-0587 EA 2.4/4.8 KV Power Factor Meter.....	3,746.46	
26 24 19 00-0588 EA 2.4/4.8 KV Watt Hr Meter, 2 Element Drawout	2,582.77	
26 24 19 00-0589 EA 2.4/4.8 KV Operation Counter	511.35	20.27
26 24 19 00-0590 EA 2.4/4.8 KV Phase Failure Protection.....	3,648.42	67.57
26 24 19 00-0591 EA 2.4/4.8 KV Ground Protection	6,934.23	33.78
26 24 19 00-0592 EA 2.4/4.8 KV Synchronous Motor DC Protection.....	2,722.59	33.78
26 24 19 00-0593 EA 2.4/4.8 KV Lightning Arresters	5,141.08	20.27
26 24 19 00-0594 EA 2.4/4.8 KV Portable Lifting Mechanism.....	7,434.88	
26 24 19 00-0595 EA 2.4/4.8 KV Auxiliary Timing Relay.....	608.53	67.57
26 24 19 00-0596 EA 2.4/4.8 KV Auxiliary Control Relay.....	448.19	67.57
 26 24 19 00-0597 Incoming Section And Feeder Air Circuit Breakers <small>(26 24 19 00-0484)</small>		
Note: 3 Pole. Includes structure.		
26 24 19 00-0598 EA Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amperes, 14,000 Ampere IC, 3-Pole, With Structure Included.....	1,404.75	405.25
26 24 19 00-0599 EA Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amperes, 22,000 Ampere IC, 3-Pole, With Structure Included.....	2,442.23	717.33
26 24 19 00-0600 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	2,940.62	918.47
26 24 19 00-0601 EA Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	4,705.78	1,479.03
26 24 19 00-0602 EA Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	5,513.88	1,626.94
26 24 19 00-0603 EA Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	7,022.78	1,804.42
26 24 19 00-0604 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 45,000 Ampere IC, 3-Pole, With Structure Included.....	8,178.60	2,115.01
26 24 19 00-0605 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 100,000 Ampere IC, 3-Pole, With Structure Included.....	13,733.12	2,464.06
 26 24 19 00-0606 Main Lugs Only <small>(26 24 19 00-0484)</small>		
26 24 19 00-0607 EA 600 Amperes Incoming Section, Main Lugs	1,175.85	517.66
26 24 19 00-0608 EA 800 Amperes Incoming Section, Main Lugs	1,280.57	517.66
26 24 19 00-0609 EA 1,200 Amperes Incoming Section, Main Lugs.....	1,811.58	813.46
26 24 19 00-0610 EA 2,000 Amperes Incoming Section, Main Lugs.....	4,266.87	1,479.03
26 24 19 00-0611 EA 3,000 Amperes Incoming Section, Main Lugs.....	6,462.84	2,144.59
26 24 19 00-0612 EA 4,000 Amperes Incoming Section, Main Lugs.....	9,178.21	2,958.06
 26 24 19 00-0613 Incoming Main Circuit Breaker Structure <small>(26 24 19 00-0484)</small>		
Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0614 EA 225 Amperes, Main Circuit Breaker Section	6,995.43	715.71
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0615 EA 400 Amperes, Main Circuit Breaker Section	14,633.84	919.37
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0616 EA 600 Amperes, Main Circuit Breaker Section	15,366.09	1,431.99
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0617 EA 800 Amperes, Main Circuit Breaker Section	21,616.17	1,431.99
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0618 EA 1,200 Amperes, Main Circuit Breaker Section	31,124.19	1,620.28
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0619 Incoming Fusible Main Disconnect Section <small>(26 24 19 00-0484)</small>		
Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0620 EA 200 Amperes, Fusible Main Disconnect Section	6,108.41	716.59
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0621 EA 400 Amperes, Fusible Main Disconnect Section	8,409.01	919.81
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0622 EA 600 Amperes, Fusible Main Disconnect Section	16,297.16	1,433.19
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0623 EA 800 Amperes, Fusible Main Disconnect Section	18,861.05	1,433.19
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0624 EA 1,200 Amperes, Fusible Main Disconnect Section	26,420.77	1,621.76
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0625 Circuit Breaker Combination Starters <small>(26 24 19 00-0484)</small>		
26 24 19 00-0626 Class I, Type A <small>(26 24 19 00-0625)</small>		
26 24 19 00-0627 EA Size 1, Class I, Type A Circuit Breaker Combination Starter	1,151.67	300.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	171.18	
26 24 19 00-0628 EA Size 2, Class I, Type A Circuit Breaker Combination Starter	1,333.48	300.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	189.62	
26 24 19 00-0629 EA Size 3, Class I, Type A Circuit Breaker Combination Starter	1,922.52	425.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	255.01	
26 24 19 00-0630 EA Size 4, Class I, Type A Circuit Breaker Combination Starter	3,078.87	560.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	336.14	
26 24 19 00-0631 EA Size 5, Class I, Type A Circuit Breaker Combination Starter	5,396.75	701.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	420.18	
26 24 19 00-0632 Class I, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0633 EA Size 1, Class I, Type B Circuit Breaker Combination Starter	1,080.74	261.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	147.90	
26 24 19 00-0634 EA Size 2, Class I, Type B Circuit Breaker Combination Starter	1,256.62	261.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	166.56	
26 24 19 00-0635 EA Size 3, Class I, Type B Circuit Breaker Combination Starter	1,830.97	378.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	227.54	
26 24 19 00-0636 EA Size 4, Class I, Type B Circuit Breaker Combination Starter	2,985.49	513.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	308.13	
26 24 19 00-0637 EA Size 5, Class I, Type B Circuit Breaker Combination Starter	5,321.45	655.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	397.59	
26 24 19 00-0638 Class I, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0639 EA Size 1, Class I, Type C Circuit Breaker Combination Starter	1,124.31	242.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.97	
26 24 19 00-0640 EA Size 2, Class I, Type C Circuit Breaker Combination Starter	1,313.84	242.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	157.34	
26 24 19 00-0641 EA Size 3, Class I, Type C Circuit Breaker Combination Starter	1,941.23	362.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	217.50	
26 24 19 00-0642 EA Size 4, Class I, Type C Circuit Breaker Combination Starter	3,104.17	501.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	300.62	
26 24 19 00-0643 EA Size 5, Class I, Type C Circuit Breaker Combination Starter	5,428.04	643.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	385.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0644 Class II, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0645 EA Size 1, Class II, Type B Circuit Breaker Combination Starter 1,175.74	1,175.74	359.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 203.17	203.17	
26 24 19 00-0646 EA Size 2, Class II, Type B Circuit Breaker Combination Starter 1,586.27	1,586.27	359.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 226.85	226.85	
26 24 19 00-0647 EA Size 3, Class II, Type B Circuit Breaker Combination Starter 2,223.15	2,223.15	479.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 286.64	286.64	
26 24 19 00-0648 EA Size 4, Class II, Type B Circuit Breaker Combination Starter 3,559.85	3,559.85	613.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 369.76	369.76	
26 24 19 00-0649 EA Size 5, Class II, Type B Circuit Breaker Combination Starter 6,267.14	6,267.14	749.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 450.92	450.92	
26 24 19 00-0650 Class II, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0651 EA Size 1, Class II, Type C Circuit Breaker Combination Starter 1,425.19	1,425.19	340.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 194.61	194.61	
26 24 19 00-0652 EA Size 2, Class II, Type C Circuit Breaker Combination Starter 1,628.56	1,628.56	340.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 212.51	212.51	
26 24 19 00-0653 EA Size 3, Class II, Type C Circuit Breaker Combination Starter 2,340.27	2,340.27	464.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 278.01	278.01	
26 24 19 00-0654 EA Size 4, Class II, Type C Circuit Breaker Combination Starter 3,667.68	3,667.68	599.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 358.99	358.99	
26 24 19 00-0655 EA Size 5, Class II, Type C Circuit Breaker Combination Starter 6,394.89	6,394.89	739.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 445.49	445.49	
26 24 19 00-0656 Fused Disconnect Combination Starter <small>(26 24 19 00-0484)</small>		
26 24 19 00-0657 Class I, Type A <small>(26 24 19 00-0656)</small>		
26 24 19 00-0658 EA Size 1, Class I, Type A Fused Disconnect Combination Starter 1,058.78	1,058.78	276.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 166.56	166.56	
26 24 19 00-0659 EA Size 2, Class I, Type A Fused Disconnect Combination Starter 1,577.69	1,577.69	378.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 226.85	226.85	
26 24 19 00-0660 EA Size 3, Class I, Type A Fused Disconnect Combination Starter 2,457.49	2,457.49	492.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 295.81	295.81	
26 24 19 00-0661 EA Size 4, Class I, Type A Fused Disconnect Combination Starter 3,370.14	3,370.14	690.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 415.46	415.46	
26 24 19 00-0662 EA Size 5, Class I, Type A Fused Disconnect Combination Starter 5,749.77	5,749.77	880.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 528.23	528.23	
26 24 19 00-0663 Class I, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0664 EA Size 1, Class I, Type B Fused Disconnect Combination Starter 1,061.44	1,061.44	247.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 147.90	147.90	
26 24 19 00-0665 EA Size 2, Class I, Type B Fused Disconnect Combination Starter 1,432.60	1,432.60	338.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 203.17	203.17	
26 24 19 00-0666 EA Size 3, Class I, Type B Fused Disconnect Combination Starter 2,097.44	2,097.44	452.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 271.88	271.88	
26 24 19 00-0667 EA Size 4, Class I, Type B Fused Disconnect Combination Starter 3,461.11	3,461.11	653.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 393.36	393.36	
26 24 19 00-0668 EA Size 5, Class I, Type B Fused Disconnect Combination Starter 5,820.14	5,820.14	831.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 499.67	499.67	
26 24 19 00-0669 Class I, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0670 EA Size 1, Class I, Type C Fused Disconnect Combination Starter 1,109.41	1,109.41	230.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 138.49	138.49	
26 24 19 00-0671 EA Size 2, Class I, Type C Fused Disconnect Combination Starter 1,493.96	1,493.96	313.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 189.62	189.62	
26 24 19 00-0672 EA Size 3, Class I, Type C Fused Disconnect Combination Starter 2,255.54	2,255.54	436.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 264.11	264.11	
26 24 19 00-0673 EA Size 4, Class I, Type C Fused Disconnect Combination Starter 3,617.82	3,617.82	643.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 385.17	385.17	
26 24 19 00-0674 EA Size 5, Class I, Type C Fused Disconnect Combination Starter 5,521.54	5,521.54	822.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 493.01	493.01	
26 24 19 00-0675 Class II, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0676 EA Size 1, Class II, Type B Fused Disconnect Combination Starter 1,355.24	1,355.24	346.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 207.73	207.73	
26 24 19 00-0677 EA Size 2, Class II, Type B Fused Disconnect Combination Starter 1,743.18	1,743.18	431.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 258.57	258.57	
26 24 19 00-0678 EA Size 3, Class II, Type B Fused Disconnect Combination Starter 2,495.24	2,495.24	556.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 333.11	333.11	
26 24 19 00-0679 EA Size 4, Class II, Type B Fused Disconnect Combination Starter 3,991.94	3,991.94	749.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 450.92	450.92	
26 24 19 00-0680 EA Size 5, Class II, Type B Fused Disconnect Combination Starter 6,680.56	6,680.56	936.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 560.24	560.24	
26 24 19 00-0681 Class II, Type C <small>(26 24 19 00-0656)</small>		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0682 EA Size 1, Class II, Type C Fused Disconnect Combination Starter.....	1,390.87	325.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>194.61</i>	
26 24 19 00-0683 EA Size 2, Class II, Type C Fused Disconnect Combination Starter.....	1,804.04	408.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>244.87</i>	
26 24 19 00-0684 EA Size 3, Class II, Type C Fused Disconnect Combination Starter.....	2,621.70	530.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>318.76</i>	
26 24 19 00-0685 EA Size 4, Class II, Type C Fused Disconnect Combination Starter.....	4,130.47	732.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>440.19</i>	
26 24 19 00-0686 EA Size 5, Class II, Type C Fused Disconnect Combination Starter.....	6,809.64	906.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>543.76</i>	
26 24 19 00-0687 Space Complete With Bus And Hardware (26 24 19 00-0484)		
26 24 19 00-0688 Circuit Breaker Type (26 24 19 00-0687)		
26 24 19 00-0689 EA Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	333.40	100.57
26 24 19 00-0690 EA Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	333.40	100.57
26 24 19 00-0691 EA Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	494.39	146.43
26 24 19 00-0692 EA Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	594.75	192.28
26 24 19 00-0693 EA Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	985.26	292.85
26 24 19 00-0694 Fused Disconnect Type (26 24 19 00-0687)		
26 24 19 00-0695 EA Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	333.40	100.57
26 24 19 00-0696 EA Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	447.72	146.43
26 24 19 00-0697 EA Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	617.59	192.28
26 24 19 00-0698 EA Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	1,048.99	292.85
26 24 19 00-0699 EA Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,469.81	425.96
26 24 19 00-0700 Blank Space For Future Expansion (26 24 19 00-0687)		
Note: Factory modified no labor costs.		
26 24 19 00-0701 EA Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	132.99	
26 24 19 00-0702 EA Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	132.99	
26 24 19 00-0703 EA Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs.....	201.63	
26 24 19 00-0704 EA Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs.....	201.63	
26 24 19 00-0705 EA Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs.....	401.12	
26 24 19 00-0706 Structure Combination Of Starters To 72" High (26 24 19 00-0687)		
26 24 19 00-0707 EA Structure Combination Of Starters To 72" High.....	3,718.80	778.41
26 24 19 00-0708 Motor Control Center Basic Distribution Section (26 24 19 00-0484)		
26 24 19 00-0709 EA 20" Wide Basic Section With Vertical Wireway.....	6,534.52	2,027.16
<i>For 20" Cabinet Depth, Add</i>	<i>108.00</i>	
<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	<i>182.00</i>	
<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	<i>334.00</i>	
<i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i>	<i>402.00</i>	
<i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i>	<i>506.00</i>	
<i>For NEMA 1 With Gasket, Add</i>	<i>97.00</i>	
<i>For NEMA 12, Add</i>	<i>245.00</i>	
<i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	<i>210.00</i>	
26 24 19 00-0710 EA 25"-35" Wide Basic Section (No Vertical Wireway).....	6,534.52	2,027.16
<i>For 20" Cabinet Depth, Add</i>	<i>108.00</i>	
<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	<i>182.00</i>	
<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	<i>334.00</i>	
<i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i>	<i>402.00</i>	
<i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i>	<i>506.00</i>	
<i>For NEMA 1 With Gasket, Add</i>	<i>97.00</i>	
<i>For NEMA 12, Add</i>	<i>245.00</i>	
<i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	<i>210.00</i>	
26 24 19 00-0711 EA 25" Wide Basic Section With 9" Wide Vertical Wireway.....	7,118.94	2,027.16
<i>For 20" Cabinet Depth, Add</i>	<i>108.00</i>	
<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	<i>182.00</i>	
<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	<i>334.00</i>	
<i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i>	<i>402.00</i>	
<i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i>	<i>506.00</i>	
<i>For NEMA 1 With Gasket, Add</i>	<i>97.00</i>	
<i>For NEMA 12, Add</i>	<i>245.00</i>	
<i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	<i>210.00</i>	
26 24 19 00-0712 EA Corner Section.....	7,118.94	2,027.16
<i>For 20" Cabinet Depth, Add</i>	<i>108.00</i>	
<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	<i>182.00</i>	
<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	<i>334.00</i>	
<i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i>	<i>402.00</i>	
<i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i>	<i>506.00</i>	
<i>For NEMA 1 With Gasket, Add</i>	<i>97.00</i>	
<i>For NEMA 12, Add</i>	<i>245.00</i>	
<i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	<i>210.00</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0713 Motor Control Center Starters With HMCP Circuit Breaker <small>(26 24 19 00-0484)</small> Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0714 FVNR Starters With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0715 EA Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker 1,586.27	1,586.27	284.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.81	
26 24 19 00-0716 EA Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker 1,765.10	1,765.10	315.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	189.46	
26 24 19 00-0717 EA Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker 3,004.47	3,004.47	424.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	254.71	
26 24 19 00-0718 EA Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker 4,302.50	4,302.50	559.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	335.84	
26 24 19 00-0719 EA Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker 9,615.56	9,615.56	699.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	419.70	
26 24 19 00-0720 EA Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker 22,065.64	22,065.64	699.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	419.70	
26 24 19 00-0721 EA Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker 1,582.86	1,582.86	246.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	147.74	
26 24 19 00-0722 EA Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker 1,785.00	1,785.00	277.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	166.38	
26 24 19 00-0723 EA Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker 3,046.73	3,046.73	378.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	227.17	
26 24 19 00-0724 EA Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker 4,314.06	4,314.06	513.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	307.96	
26 24 19 00-0725 EA Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker 9,616.34	9,616.34	662.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	397.59	
26 24 19 00-0726 EA Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker 22,200.38	22,200.38	662.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	397.59	
26 24 19 00-0727 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0728 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker 2,495.48	2,495.48	356.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	213.73	
26 24 19 00-0729 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker 3,042.15	3,042.15	394.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	236.52	
26 24 19 00-0730 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker 4,959.22	4,959.22	529.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	317.84	
26 24 19 00-0731 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker 8,435.92	8,435.92	700.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	420.18	
26 24 19 00-0732 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker 15,058.89	15,058.89	876.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	525.72	
26 24 19 00-0733 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker 2,509.99	2,509.99	307.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	184.57	
26 24 19 00-0734 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker 3,081.54	3,081.54	346.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	208.12	
26 24 19 00-0735 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker 5,019.14	5,019.14	474.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.43	
26 24 19 00-0736 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker 8,430.93	8,430.93	641.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	385.17	
26 24 19 00-0737 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker 15,076.30	15,076.30	829.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	497.43	
26 24 19 00-0738 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0739 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker 2,718.91	2,718.91	356.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	213.73	
26 24 19 00-0740 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker 3,818.22	3,818.22	394.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	236.52	
26 24 19 00-0741 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker 7,108.69	7,108.69	529.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	317.84	
26 24 19 00-0742 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker 9,670.79	9,670.79	700.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	420.18	
26 24 19 00-0743 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker 19,147.80	19,147.80	876.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	525.72	
26 24 19 00-0744 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker 2,733.42	2,733.42	307.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	184.57	
26 24 19 00-0745 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker 3,857.61	3,857.61	346.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	208.12	
26 24 19 00-0746 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker 7,168.62	7,168.62	474.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.43	
26 24 19 00-0747 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker 9,665.80	9,665.80	641.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	385.17	
26 24 19 00-0748 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker 19,165.22	19,165.22	829.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	497.43	
26 24 19 00-0749 Motor Control Center Starters With Fusible Disconnect <small>(26 24 19 00-0484)</small> Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0750 FVNR Starters With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0751 EA Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect 1,301.48	1,301.48	277.61
26 24 19 00-0752 EA Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect 1,703.48	1,703.48	377.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0753 EA Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,778.35	491.63
26 24 19 00-0754 EA Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	4,623.22	692.48
26 24 19 00-0755 EA Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	9,058.24	880.31
26 24 19 00-0756 EA Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	22,351.32	880.31
26 24 19 00-0757 EA Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,311.13	246.11
26 24 19 00-0758 EA Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,721.66	337.96
26 24 19 00-0759 EA Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,835.29	453.17
26 24 19 00-0760 EA Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	4,624.04	655.66
26 24 19 00-0761 EA Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	9,037.55	832.84
26 24 19 00-0762 EA Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	22,464.69	832.84
26 24 19 00-0763 Two Speed 2-Winding (TS2W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0764 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,183.13	347.57
26 24 19 00-0765 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,036.13	471.66
26 24 19 00-0766 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,648.53	614.24
26 24 19 00-0767 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	9,554.79	868.04
26 24 19 00-0768 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	15,366.43	1,015.80
26 24 19 00-0769 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,214.05	307.64
26 24 19 00-0770 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,071.13	422.11
26 24 19 00-0771 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,725.62	567.06
26 24 19 00-0772 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	9,566.65	818.05
26 24 19 00-0773 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	15,362.35	957.97
26 24 19 00-0774 Two Speed 1-Winding (TS1W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0775 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,519.77	347.57
26 24 19 00-0776 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,824.12	471.66
26 24 19 00-0777 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,820.35	614.24
26 24 19 00-0778 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	10,007.63	868.04
26 24 19 00-0779 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	18,624.16	1,015.80
26 24 19 00-0780 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,551.69	307.64
26 24 19 00-0781 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,859.12	422.11
26 24 19 00-0782 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,897.43	567.06
26 24 19 00-0783 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	10,019.49	818.05
26 24 19 00-0784 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	18,620.07	957.97
26 24 19 00-0785 Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit <small>(26 24 19 00-0484)</small>		
Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0786 EA 600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	2,636.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.11	
26 24 19 00-0787 EA 800 Amperes, Horizontal Tin Plated Copper Bus Kit.....	3,210.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.11	
26 24 19 00-0788 EA 1,200 Amperes, Horizontal Tin Plated Copper Bus Kit.....	3,860.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	13.33	
26 24 19 00-0789 EA 1,600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	4,999.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	13.33	
26 24 19 00-0790 EA 2,000 Amperes, Horizontal Tin Plated Copper Bus Kit.....	8,327.37	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	15.55	
26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....	152.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	8.89	
26 24 19 00-0792 Disconnect Switch For Motor Control Centers <small>(26 24 19 00-0484)</small>		
26 24 19 00-0793 3 Pole Circuit Breaker Disconnect For Motor Control Center <small>(26 24 19 00-0792)</small>		
Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794 EA 150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	947.81	213.72
26 24 19 00-0795 EA 150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,570.66	236.65
26 24 19 00-0796 EA 225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,935.42	318.73
26 24 19 00-0797 EA 400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	3,141.71	420.04
26 24 19 00-0798 EA 600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	5,299.32	525.05
26 24 19 00-0799 EA 800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	5,997.84	525.05
26 24 19 00-0800 EA 1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	12,084.62	657.43
26 24 19 00-0801 Fusible Disconnect Switch For Motor Control Center <small>(26 24 19 00-0792)</small>		
Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802 EA 30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....	907.16	207.81
26 24 19 00-0803 EA 60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....	1,087.87	283.23
26 24 19 00-0804 EA 100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....	1,478.46	362.37
26 24 19 00-0805 EA 200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....	2,681.37	519.14
26 24 19 00-0806 EA 400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....	4,637.87	660.24
26 24 19 00-0807 EA 600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....	10,238.72	660.24
26 24 19 00-0808 EA 800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....	12,661.73	825.30
26 24 19 00-0809 EA 1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....	18,524.75	825.30
26 24 19 00-0810 Control Circuit Transformer <small>(26 24 19 00-0484)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0811 EA Control Circuit Transformer, Size 1 Factory Installed	70.95	
26 24 19 00-0812 EA Control Circuit Transformer, Size 2 Factory Installed	70.95	
26 24 19 00-0813 EA Control Circuit Transformer, Size 3 Factory Installed	136.64	
26 24 19 00-0814 EA Control Circuit Transformer, Size 4 Factory Installed	136.64	
26 24 19 00-0815 EA Control Circuit Transformer, Size 5 Factory Installed	189.83	
26 24 19 00-0816 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay	61.36	16.73
26 24 19 00-0817 Cover Mounted Control Devices <small>(26 24 19 00-0484)</small>		
26 24 19 00-0818 EA Control Device, 2 Unit Push Button Station Cover Mounted	132.57	29.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.49	
26 24 19 00-0819 EA Control Device, 2-3 Unit Selector Switch Cover Mounted	150.61	29.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.11	
26 24 19 00-0820 EA Control Device, Pilot Light Cover Mounted	122.37	29.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.85	
26 24 19 00-0821 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light	349.21	100.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.62	
26 24 19 00-0822 EA Auxiliary Contact Add Per Starter	382.05	38.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.99	
26 24 19 00-0823 Extra Interlocks <small>(26 24 19 00-0484)</small>		
Note: Per contact.		
26 24 19 00-0824 EA Extra Interlocks, Class I, Type A Per Contact	87.69	19.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.85	
26 24 19 00-0825 EA Extra Interlocks, Class I, Type B Per Contact	117.35	19.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.85	
26 24 19 00-0826 EA Extra Interlocks, Class I, Type C Per Contact	127.50	19.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.56	
26 24 19 00-0827 EA Extra Interlocks, Class II, Type B Per Contact	113.86	19.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.25	
26 24 19 00-0828 EA Extra Interlocks, Class II, Type C Per Contact	118.17	19.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.98	
26 24 19 00-0829 Special Cabinet Provisions <small>(26 24 19 00-0484)</small>		
26 24 19 00-0830 EA Provisions For Bus Duct Entrance Special Cabinet Provisions	888.19	
26 24 19 00-0831 Nameplate Requirements <small>(26 24 19 00-0484)</small>		
26 24 19 00-0832 EA Special Cabinet Nameplate Requirements	31.53	
26 24 19 00-0833 Auxiliary Relays <small>(26 24 19 00-0484)</small>		
26 24 19 00-0834 EA Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts	190.84	37.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.22	
26 24 19 00-0835 EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay	181.35	33.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.22	
26 24 19 00-0836 EA General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base	110.55	33.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.22	
26 24 19 00-0837 Motor Control Center Accessories <small>(26 24 19 00-0484)</small>		
26 24 19 00-0838 Lighting Transformer With Circuit Breaker <small>(26 24 19 00-0837)</small>		
Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
26 24 19 00-0839 EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker	5,363.01	472.53
26 24 19 00-0840 EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker	5,575.99	491.43
26 24 19 00-0841 EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker	6,096.85	529.24
26 24 19 00-0842 EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker	7,618.34	567.04
26 24 19 00-0843 EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker	10,169.64	604.84
26 24 19 00-0844 EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker	12,463.21	680.44
26 24 19 00-0845 EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker	16,311.55	756.05
26 24 19 00-0846 EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker	9,612.54	623.75
26 24 19 00-0847 EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker	10,444.84	680.44
26 24 19 00-0848 EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker	11,935.59	756.05
26 24 19 00-0849 EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker	12,676.21	831.65
26 24 19 00-0850 EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker	15,248.98	907.26
26 24 19 00-0851 EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker	15,756.04	982.87
26 24 19 00-0852 Bolt-On Lighting Panel <small>(26 24 19 00-0837)</small>		
Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
26 24 19 00-0853 EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt	2,502.90	769.68
26 24 19 00-0854 EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt	3,960.44	1,339.71
26 24 19 00-0855 EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt	5,276.56	1,812.55
26 24 19 00-0856 EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt	2,629.10	832.84
26 24 19 00-0857 EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt	3,903.44	1,311.17
26 24 19 00-0858 EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt	5,503.13	1,925.85
26 24 19 00-0859 EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	4,055.50	892.75

26 Electrical
26 20 Low-Voltage Electrical Distribution
 26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24	19 00-0860	EA	30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	5,501.41	1,433.19
26 24	19 00-0861	EA	42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	6,930.15	1,925.85
26 24	19 00-0862	EA	18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	4,195.92	962.85
26 24	19 00-0863	EA	30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	5,501.41	1,433.19
26 24	19 00-0864	EA	42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	7,054.39	1,987.96

26 24 19 00-0865 Factory Installed Bolt-On Branch Circuit Breaker (26 24 19 00-0837)
 Note: For MCC lighting panel only.

26 24	19 00-0866	EA	15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker	20.87	
26 24	19 00-0867	EA	15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker	273.73	
26 24	19 00-0868	EA	15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker	40.79	
26 24	19 00-0869	EA	60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker	93.92	
26 24	19 00-0870	EA	15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker	110.05	
26 24	19 00-0871	EA	60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker	166.97	

26 24 19 00-0872 Blank Unit Door (BUD) (26 24 19 00-0837)
 Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.

26 24	19 00-0873	EA	6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	72.99	
26 24	19 00-0874	EA	12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	87.59	
26 24	19 00-0875	EA	18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	131.39	
26 24	19 00-0876	EA	24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	175.18	
26 24	19 00-0877	EA	30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	262.78	
26 24	19 00-0878	EA	48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	306.57	
26 24	19 00-0879	EA	72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	350.37	

26 25 Enclosed Bus Assemblies (26 20)

26 25 13 Low-Voltage Busways (26 25)

26 25 13 00-0001 Plug-In Bus Duct (26 25 13)
 Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.

26 25 13 00-0002 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0001)

26 25	13 00-0003	LF	225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	273.89	44.37
			For Up To 25, Add	68.47	
			For >25 To 50, Add	41.08	
			For >50 To 100, Add	20.54	
26 25	13 00-0004	LF	400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	378.79	44.37
			For Up To 25, Add	94.70	
			For >25 To 50, Add	56.82	
			For >50 To 100, Add	28.41	
26 25	13 00-0005	LF	600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	476.22	59.16
			For Up To 25, Add	119.06	
			For >25 To 50, Add	71.43	
			For >50 To 100, Add	35.72	
26 25	13 00-0006	LF	800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	646.17	59.16
			For Up To 25, Add	161.54	
			For >25 To 50, Add	96.93	
			For >50 To 100, Add	48.46	
26 25	13 00-0007	LF	1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	682.41	73.95
			For Up To 25, Add	170.60	
			For >25 To 50, Add	102.36	
			For >50 To 100, Add	51.18	
26 25	13 00-0008	LF	1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	936.93	73.95
			For Up To 25, Add	234.23	
			For >25 To 50, Add	140.54	
			For >50 To 100, Add	70.27	
26 25	13 00-0009	LF	1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,089.66	77.65
			For Up To 25, Add	272.42	
			For >25 To 50, Add	163.45	
			For >50 To 100, Add	81.72	
26 25	13 00-0010	LF	2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,316.41	79.86
			For Up To 25, Add	329.10	
			For >25 To 50, Add	197.46	
			For >50 To 100, Add	98.73	
26 25	13 00-0011	LF	2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,614.59	84.30
			For Up To 25, Add	403.65	
			For >25 To 50, Add	242.19	
			For >50 To 100, Add	121.09	
26 25	13 00-0012	LF	3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,865.02	98.36
			For Up To 25, Add	466.26	
			For >25 To 50, Add	279.75	
			For >50 To 100, Add	139.88	
26 25	13 00-0013	LF	4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,153.68	107.23
			For Up To 25, Add	538.42	
			For >25 To 50, Add	323.05	
			For >50 To 100, Add	161.53	

26 25 13 00-0014 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0001)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0015 LF 225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	426.61	44.37
<i>For Up To 25, Add</i>	106.65	
<i>For >25 To 50, Add</i>	63.99	
<i>For >50 To 100, Add</i>	32.00	
26 25 13 00-0016 LF 400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	607.08	44.37
<i>For Up To 25, Add</i>	151.77	
<i>For >25 To 50, Add</i>	91.06	
<i>For >50 To 100, Add</i>	45.53	
26 25 13 00-0017 LF 600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	686.37	59.16
<i>For Up To 25, Add</i>	171.59	
<i>For >25 To 50, Add</i>	102.96	
<i>For >50 To 100, Add</i>	51.48	
26 25 13 00-0018 LF 800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	866.49	59.16
<i>For Up To 25, Add</i>	216.62	
<i>For >25 To 50, Add</i>	129.97	
<i>For >50 To 100, Add</i>	64.99	
26 25 13 00-0019 LF 1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,051.90	73.95
<i>For Up To 25, Add</i>	262.98	
<i>For >25 To 50, Add</i>	157.79	
<i>For >50 To 100, Add</i>	78.89	
26 25 13 00-0020 LF 1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,352.15	73.95
<i>For Up To 25, Add</i>	338.04	
<i>For >25 To 50, Add</i>	202.82	
<i>For >50 To 100, Add</i>	101.41	
26 25 13 00-0021 LF 1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,740.45	76.62
<i>For Up To 25, Add</i>	435.11	
<i>For >25 To 50, Add</i>	261.07	
<i>For >50 To 100, Add</i>	130.53	
26 25 13 00-0022 LF 2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,087.49	79.86
<i>For Up To 25, Add</i>	521.87	
<i>For >25 To 50, Add</i>	313.12	
<i>For >50 To 100, Add</i>	156.56	
26 25 13 00-0023 LF 2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,578.53	83.56
<i>For Up To 25, Add</i>	644.63	
<i>For >25 To 50, Add</i>	386.78	
<i>For >50 To 100, Add</i>	193.39	
26 25 13 00-0024 LF 3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,977.28	98.36
<i>For Up To 25, Add</i>	744.32	
<i>For >25 To 50, Add</i>	446.59	
<i>For >50 To 100, Add</i>	223.30	
26 25 13 00-0025 LF 4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	3,446.48	107.23
<i>For Up To 25, Add</i>	861.62	
<i>For >25 To 50, Add</i>	516.97	
<i>For >50 To 100, Add</i>	258.49	
26 25 13 00-0026 Cable Tap Boxes <small>(26 25 13 00-0001)</small>		
26 25 13 00-0027 600 Volt, 3-Phase, 3-Wire, Copper Conductors <small>(26 25 13 00-0026)</small>		
26 25 13 00-0028 EA 225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,134.22	207.07
26 25 13 00-0029 EA 400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,225.84	207.07
26 25 13 00-0030 EA 600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,418.71	281.02
26 25 13 00-0031 EA 800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,587.74	281.02
26 25 13 00-0032 EA 1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,785.22	369.76
26 25 13 00-0033 EA 1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	3,055.22	369.76
26 25 13 00-0034 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0026)</small>		
26 25 13 00-0035 EA 225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,225.84	406.74
26 25 13 00-0036 EA 400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,435.68	406.74
26 25 13 00-0037 EA 600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,620.17	554.63
26 25 13 00-0038 EA 800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,947.10	554.63
26 25 13 00-0039 EA 1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,117.68	739.52
26 25 13 00-0040 EA 1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,540.17	739.52
26 25 13 00-0041 Bus Duct Plug-In Circuit Breaker <small>(26 25 13 00-0001)</small>		
26 25 13 00-0042 240 Volt, 3-Phase <small>(26 25 13 00-0041)</small>		
26 25 13 00-0043 EA 60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	992.57	147.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.91	
26 25 13 00-0044 EA 100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	1,913.29	147.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.87	
26 25 13 00-0045 600 Volt, 3-Phase <small>(26 25 13 00-0041)</small>		
26 25 13 00-0046 EA 60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	1,836.77	147.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.91	
26 25 13 00-0047 EA 100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	2,378.05	147.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.87	
26 25 13 00-0048 120/208 Volt, 3-Phase, 4-Wire <small>(26 25 13 00-0041)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0049 EA 60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker.....	1,142.21	177.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>92.44</i>	
26 25 13 00-0050 EA 100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker.....	1,370.05	177.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>115.55</i>	
26 25 13 00-0051 277/480 Volt, 3-Phase, 4-Wire <small>(26 25 13 00-0041)</small>		
26 25 13 00-0052 EA 60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	1,293.01	177.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>92.44</i>	
26 25 13 00-0053 EA 100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	1,960.53	177.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>115.55</i>	
26 25 13 00-0054 EA 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	2,968.58	613.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>266.01</i>	
26 25 13 00-0055 EA 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	7,023.74	613.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>577.75</i>	
26 25 13 00-0056 EA 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	8,017.54	1,774.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>803.82</i>	
26 25 13 00-0057 EA 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	10,478.99	1,774.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,422.15</i>	
26 25 13 00-0058 Bus Duct Plug-In Fusible Switch <small>(26 25 13 00-0001)</small>		
26 25 13 00-0059 240 Volt, 3-Pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	990.50	147.91
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,096.32	147.91
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,502.94	177.48
26 25 13 00-0063 EA 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,546.31	354.96
26 25 13 00-0064 EA 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	6,358.25	798.68
26 25 13 00-0065 EA 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	9,642.60	1,390.29
26 25 13 00-0066 600 Volt, 3-Pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0067 EA 30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,019.33	162.69
26 25 13 00-0068 EA 60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,122.97	162.69
26 25 13 00-0069 EA 100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,507.24	162.69
26 25 13 00-0070 EA 200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,594.75	340.18
26 25 13 00-0071 EA 400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	6,318.75	769.09
26 25 13 00-0072 EA 600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	9,922.72	1,479.03
26 25 13 00-0073 EA 800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	15,985.53	1,922.74
26 25 13 00-0074 120/208 Volt, 4-pole, 3 Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0075 EA 30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,142.78	192.28
26 25 13 00-0076 EA 60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,239.36	192.28
26 25 13 00-0077 EA 100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,674.20	192.28
26 25 13 00-0078 EA 200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,834.56	399.34
26 25 13 00-0079 EA 400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	7,001.80	887.42
26 25 13 00-0080 EA 600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	10,221.90	1,360.70
26 25 13 00-0081 277/480 Volt, 4-pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0082 EA 30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,177.46	192.28
26 25 13 00-0083 EA 60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,274.04	163.14
26 25 13 00-0084 EA 100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,778.56	221.85
26 25 13 00-0085 EA 200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,946.94	399.34
26 25 13 00-0086 EA 400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	7,001.80	887.42
26 25 13 00-0087 EA 600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	10,221.90	1,360.70
26 25 13 00-0088 EA 800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	15,965.38	1,804.42
26 25 16 Low-Voltage Cablebus Systems <small>(26 25)</small>		
26 25 16 00-0001 Feeder Bus Duct <small>(26 25 16)</small>		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 16 00-0002 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance <small>(26 25 16 00-0001)</small>		
Note: Copper conductors.		
26 25 16 00-0003 LF 800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	759.78	62.12
<i>For Up To 25, Add</i>	<i>189.95</i>	
<i>For >25 To 50, Add</i>	<i>113.97</i>	
<i>For >50 To 100, Add</i>	<i>56.98</i>	
26 25 16 00-0004 LF 1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	772.33	62.12
<i>For Up To 25, Add</i>	<i>193.08</i>	
<i>For >25 To 50, Add</i>	<i>115.85</i>	
<i>For >50 To 100, Add</i>	<i>57.92</i>	
26 25 16 00-0005 LF 1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,003.44	62.12
<i>For Up To 25, Add</i>	<i>250.86</i>	
<i>For >25 To 50, Add</i>	<i>150.52</i>	
<i>For >50 To 100, Add</i>	<i>75.26</i>	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Enclosed Bus Assemblies	26 25	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0006	LF		1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,200.46	62.12
			<i>For Up To 25, Add</i>	300.12	
			<i>For >25 To 50, Add</i>	180.07	
			<i>For >50 To 100, Add</i>	90.03	
26 25 16 00-0007	LF		2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,464.24	62.12
			<i>For Up To 25, Add</i>	366.06	
			<i>For >25 To 50, Add</i>	219.64	
			<i>For >50 To 100, Add</i>	109.82	
26 25 16 00-0008	LF		3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,999.80	147.91
			<i>For Up To 25, Add</i>	499.95	
			<i>For >25 To 50, Add</i>	299.97	
			<i>For >50 To 100, Add</i>	149.99	
26 25 16 00-0009	LF		4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	2,754.75	147.91
			<i>For Up To 25, Add</i>	688.69	
			<i>For >25 To 50, Add</i>	413.21	
			<i>For >50 To 100, Add</i>	206.61	
26 25 16 00-0010	LF		5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	3,259.54	147.91
			<i>For Up To 25, Add</i>	814.89	
			<i>For >25 To 50, Add</i>	488.93	
			<i>For >50 To 100, Add</i>	244.47	
26 25 16 00-0011	LF		6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	4,007.93	147.91
			<i>For Up To 25, Add</i>	1,001.98	
			<i>For >25 To 50, Add</i>	601.19	
			<i>For >50 To 100, Add</i>	300.59	
26 25 16 00-0012			277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated <small>(26 25 16 00-0001)</small>		
			Note: Low impedance, copper conductors.		
26 25 16 00-0013	LF		800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	866.60	66.56
			<i>For Up To 25, Add</i>	216.65	
			<i>For >25 To 50, Add</i>	129.99	
			<i>For >50 To 100, Add</i>	65.00	
26 25 16 00-0014	LF		1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	883.68	66.56
			<i>For Up To 25, Add</i>	220.92	
			<i>For >25 To 50, Add</i>	132.55	
			<i>For >50 To 100, Add</i>	66.28	
26 25 16 00-0015	LF		1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,130.67	66.56
			<i>For Up To 25, Add</i>	282.67	
			<i>For >25 To 50, Add</i>	169.60	
			<i>For >50 To 100, Add</i>	84.80	
26 25 16 00-0016	LF		1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,339.89	66.56
			<i>For Up To 25, Add</i>	334.97	
			<i>For >25 To 50, Add</i>	200.98	
			<i>For >50 To 100, Add</i>	100.49	
26 25 16 00-0017	LF		2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,616.21	66.56
			<i>For Up To 25, Add</i>	404.05	
			<i>For >25 To 50, Add</i>	242.43	
			<i>For >50 To 100, Add</i>	121.22	
26 25 16 00-0018	LF		3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,475.44	113.89
			<i>For Up To 25, Add</i>	618.86	
			<i>For >25 To 50, Add</i>	371.32	
			<i>For >50 To 100, Add</i>	185.66	
26 25 16 00-0019	LF		4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,103.46	113.89
			<i>For Up To 25, Add</i>	775.87	
			<i>For >25 To 50, Add</i>	465.52	
			<i>For >50 To 100, Add</i>	232.76	
26 25 16 00-0020	LF		5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,673.56	211.50
			<i>For Up To 25, Add</i>	918.39	
			<i>For >25 To 50, Add</i>	551.03	
			<i>For >50 To 100, Add</i>	275.52	
26 25 16 00-0021	LF		6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	4,521.12	211.50
			<i>For Up To 25, Add</i>	1,130.28	
			<i>For >25 To 50, Add</i>	678.17	
			<i>For >50 To 100, Add</i>	339.08	

26 27 Low-Voltage Distribution Equipment (26 20)

26 27 13 Electricity Metering (26 27)

26 27 13 00-0001 Revenue Metering (26 27 13)

26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)

Note: NEMA 3R.

26 27 13 00-0003	EA		100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	304.09	96.13
26 27 13 00-0004	EA		100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	320.56	96.13
26 27 13 00-0005	EA		200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	417.71	118.32
26 27 13 00-0006	EA		200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	422.39	118.32
26 27 13 00-0007	EA		200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	780.27	133.11
26 27 13 00-0008	EA		320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	1,026.59	147.91
26 27 13 00-0009	EA		400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	2,459.63	162.69
26 27 13 00-0010	EA		Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base	3,034.10	739.52

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0011 Meter Device <small>(26 27 13 00-0001)</small> Note: Direct read, with 15 minute demand.		
26 27 13 00-0012 EA 100 To 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter.....	282.21	29.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	18.19	
26 27 13 00-0013 EA 200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter.....	774.23	29.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	18.51	
26 27 13 00-0014 Current Transformer Enclosure <small>(26 27 13 00-0001)</small>		
26 27 13 00-0015 EA 18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure.....	638.98	192.28
26 27 13 00-0016 120/240 Volt Meter Center And Main Breaker, Indoor Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0017 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole <small>(26 27 13 00-0016)</small>		
26 27 13 00-0018 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,090.33	92.44
26 27 13 00-0019 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,430.91	110.93
26 27 13 00-0020 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,769.71	129.41
26 27 13 00-0021 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,049.93	147.91
26 27 13 00-0022 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,658.58	166.39
26 27 13 00-0023 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,873.10	184.87
26 27 13 00-0024 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	3,355.41	221.85
26 27 13 00-0025 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole <small>(26 27 13 00-0016)</small>		
26 27 13 00-0026 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	1,978.06	92.44
26 27 13 00-0027 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	2,600.92	110.93
26 27 13 00-0028 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,580.36	147.91
26 27 13 00-0029 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,972.39	166.39
26 27 13 00-0030 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	4,985.86	184.87
26 27 13 00-0031 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0016)</small>		
26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,664.96	129.41
26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,177.76	147.91
26 27 13 00-0034 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,658.58	166.39
26 27 13 00-0035 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,121.66	184.87
26 27 13 00-0036 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,922.06	203.37
26 27 13 00-0037 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,118.84	221.85
26 27 13 00-0038 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,098.24	258.83
26 27 13 00-0039 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0016)</small>		
26 27 13 00-0040 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,549.12	129.41
26 27 13 00-0041 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,331.78	147.91
26 27 13 00-0042 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,684.03	184.87
26 27 13 00-0043 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,022.83	203.37
26 27 13 00-0044 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,409.09	221.85
26 27 13 00-0045 120/208 Volt Meter Center And Main Breaker, Indoor Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0046 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0047 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,191.23	110.93
26 27 13 00-0048 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,551.34	129.41
26 27 13 00-0049 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,909.67	147.91
26 27 13 00-0050 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,214.73	166.39
26 27 13 00-0051 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,713.32	184.87
26 27 13 00-0052 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,927.83	203.37
26 27 13 00-0053 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,605.44	240.35
26 27 13 00-0054 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0055 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,086.05	110.93
26 27 13 00-0056 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,744.43	129.41
26 27 13 00-0057 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,954.64	166.39
26 27 13 00-0058 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,346.70	184.87
26 27 13 00-0059 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,253.68	203.37
26 27 13 00-0060 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,765.88	147.91
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,285.77	166.39
26 27 13 00-0063 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,819.87	184.87
26 27 13 00-0064 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,282.96	203.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0065 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,118.90	221.85
26 27 13 00-0066 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,315.61	240.35
26 27 13 00-0067 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,366.08	277.32
26 27 13 00-0068 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0069 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,674.89	147.91
26 27 13 00-0070 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,510.81	166.39
26 27 13 00-0071 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,022.88	203.37
26 27 13 00-0072 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,255.11	221.85
26 27 13 00-0073 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,659.17	240.35
26 27 13 00-0074 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0075 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0076 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,090.33	92.44
26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,430.91	110.93
26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,049.93	147.91
26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,658.58	166.39
26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,281.45	184.87
26 27 13 00-0081 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,978.05	92.44
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,600.91	110.93
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,757.88	147.91
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,149.94	166.39
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,985.86	184.87
26 27 13 00-0087 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,664.96	129.41
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,177.76	147.91
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,121.66	184.87
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,922.06	203.37
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,118.84	221.85
26 27 13 00-0093 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0094 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,549.13	129.41
26 27 13 00-0095 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,331.78	147.91
26 27 13 00-0096 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,684.03	184.87
26 27 13 00-0097 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,022.83	203.37
26 27 13 00-0098 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,409.14	221.85
26 27 13 00-0099 120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0100 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0101 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,191.23	110.93
26 27 13 00-0102 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,551.34	129.41
26 27 13 00-0103 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,214.73	166.39
26 27 13 00-0104 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,890.86	184.87
26 27 13 00-0105 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,282.91	203.37
26 27 13 00-0106 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0107 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,086.04	110.93
26 27 13 00-0108 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,744.42	129.41
26 27 13 00-0109 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,777.10	166.39
26 27 13 00-0110 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,169.16	184.87
26 27 13 00-0111 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,253.63	203.37
26 27 13 00-0112 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0113 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,765.86	147.91
26 27 13 00-0114 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,285.74	166.39
26 27 13 00-0115 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,282.91	203.37
26 27 13 00-0116 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,118.84	221.85

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0117 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,315.61	240.35
26 27 13 00-0118 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0119 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,674.87	147.91
26 27 13 00-0120 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,510.78	166.39
26 27 13 00-0121 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,022.83	203.37
26 27 13 00-0122 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,255.11	221.85
26 27 13 00-0123 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,659.17	240.35
26 27 13 00-0124 Watt/Hour Meters (26 27 13)		
26 27 13 00-0125 EA Single Phase M-90 Meter, Socket, NEMA 3R Enclosure.....	1,179.60	88.74
26 27 13 00-0126 EA Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure	3,530.03	177.48
26 27 13 00-0127 EA Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	1,898.04	133.11
26 27 13 00-0128 EA Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	2,303.51	133.11
26 27 13 00-0129 EA Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure.....	1,957.60	133.11
26 27 13 00-0130 EA C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,315.60	122.76
26 27 13 00-0131 EA P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure.....	2,253.50	221.85
26 27 13 00-0132 Watt/Hour Meter Systems (26 27 13)		
Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.		
26 27 13 00-0133 Watt/Hour Meter System Without Main Breaker (26 27 13 00-0132)		
26 27 13 00-0134 EA 400 Amperes System; 200 Amperes M-90 Meter And Enclosure.....	5,891.11	887.57
26 27 13 00-0135 EA 600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure.....	6,848.03	887.57
26 27 13 00-0136 Watt/Hour Meter System With Main Breaker (26 27 13 00-0132)		
26 27 13 00-0137 EA 400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	10,092.45	887.57
26 27 13 00-0138 EA 600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	12,179.06	887.57
26 27 13 00-0139 EA 800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	13,063.97	887.57
26 27 16 Electrical Cabinets and Enclosures (26 27)		
Note: Can be used as enclosure or pull/junction boxes.		
26 27 16 00-0001 NEMA 1 Enclosures, Lockable (26 27 16)		
26 27 16 00-0002 Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)		
26 27 16 00-0003 4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)		
26 27 16 00-0004 EA 6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	90.52	29.58
26 27 16 00-0005 EA 6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	101.27	32.54
26 27 16 00-0006 EA 8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	112.10	35.49
26 27 16 00-0007 EA 8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	130.86	41.42
26 27 16 00-0008 EA 10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	142.25	44.37
26 27 16 00-0009 EA 10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	154.38	47.33
26 27 16 00-0010 EA 12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	154.00	47.33
26 27 16 00-0011 EA 12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	166.39	50.29
26 27 16 00-0012 EA 12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	179.36	53.25
26 27 16 00-0013 EA 16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	233.36	70.99
26 27 16 00-0014 EA 16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	282.95	85.79
26 27 16 00-0015 EA 18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	269.34	82.83
26 27 16 00-0016 6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)		
26 27 16 00-0017 EA 6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	112.84	35.49
26 27 16 00-0018 EA 8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	136.34	41.42
26 27 16 00-0019 EA 10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	163.09	50.29
26 27 16 00-0020 EA 10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	175.77	53.25
26 27 16 00-0021 EA 12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	188.68	56.20
26 27 16 00-0022 EA 12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	202.14	59.16
26 27 16 00-0023 EA 16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	257.39	76.91
26 27 16 00-0024 EA 16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	312.62	94.66
26 27 16 00-0025 EA 18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	301.63	91.70
26 27 16 00-0026 EA 18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	392.39	118.32
26 27 16 00-0027 EA 24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	497.40	136.07
26 27 16 00-0028 EA 24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	565.38	147.91
26 27 16 00-0029 EA 30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	626.30	156.77
26 27 16 00-0030 EA 36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	679.84	162.69
26 27 16 00-0031 EA 24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L)	464.09	118.32
26 27 16 00-0032 Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)		
26 27 16 00-0033 3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0034 EA 4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	62.10	20.71



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0035 EA 6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	88.76	29.58
26 27 16 00-0036 EA 8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	98.79	32.54
26 27 16 00-0037 4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0038 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	69.69	23.66
26 27 16 00-0039 EA 6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	86.52	29.58
26 27 16 00-0040 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	96.40	32.54
26 27 16 00-0041 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	106.41	35.49
26 27 16 00-0042 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	124.16	41.42
26 27 16 00-0043 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	134.59	44.37
26 27 16 00-0044 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	145.47	47.33
26 27 16 00-0045 EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	145.12	47.33
26 27 16 00-0046 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	156.42	50.29
26 27 16 00-0047 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	168.00	53.25
26 27 16 00-0048 EA 16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	220.42	70.99
26 27 16 00-0049 EA 16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	273.50	88.74
26 27 16 00-0050 EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	254.03	82.83
26 27 16 00-0051 EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	328.65	106.49
26 27 16 00-0052 EA 24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	464.40	133.11
26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0054 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	106.91	35.49
26 27 16 00-0055 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	117.59	38.46
26 27 16 00-0056 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	135.57	44.37
26 27 16 00-0057 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	153.87	50.29
26 27 16 00-0058 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	165.30	53.25
26 27 16 00-0059 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	176.84	56.20
26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	188.81	59.16
26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	242.31	76.91
26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	297.79	94.66
26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	283.87	91.70
26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	368.65	118.32
26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	454.69	136.07
26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	517.18	147.91
26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	556.96	156.77
26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	604.92	162.69
26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	153.87	50.29
26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	208.18	65.08
26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	264.70	82.83
26 27 16 00-0073 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	328.90	103.53
26 27 16 00-0074 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	315.14	100.57
26 27 16 00-0075 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	390.21	124.24
26 27 16 00-0076 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	436.84	141.99
26 27 16 00-0077 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	499.93	150.86
26 27 16 00-0078 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	570.10	162.69
26 27 16 00-0079 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	605.84	171.57
26 27 16 00-0080 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	635.15	177.48
26 27 16 00-0081 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	649.66	177.48
26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0083 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	356.80	112.40
26 27 16 00-0084 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	468.12	144.94
26 27 16 00-0085 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	477.31	153.82
26 27 16 00-0086 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	602.63	165.65
26 27 16 00-0087 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	689.99	183.40
26 27 16 00-0088 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	758.77	189.31
26 27 16 00-0089 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	807.58	198.19
26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0091 EA 18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	516.66	159.74
26 27 16 00-0092 EA 24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	519.24	168.61
26 27 16 00-0093 EA 24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	663.20	183.40
26 27 16 00-0094 EA 24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	753.63	201.14
26 27 16 00-0095 EA 30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	837.99	210.02
26 27 16 00-0096 EA 36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	882.57	218.90
26 27 16 00-0097 NEMA 1 Enclosures For Up To 6 Boards, Lockable (26 27 16)		
26 27 16 00-0098 4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures (26 27 16		
00-0097) 26 27 16 00-0099 EA 24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	1,242.25	130.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0100	NEMA 12 Enclosures, Lockable <small>(26 27 16)</small> Note: Dust-tight enclosures.	
26 27 16 00-0101	Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>	
26 27 16 00-0102	4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0101)</small>	
26 27 16 00-0103 EA	4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	121.81 23.66
26 27 16 00-0104 EA	6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	159.28 32.54
26 27 16 00-0105 EA	8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	197.48 41.42
26 27 16 00-0106 EA	10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	213.63 44.37
26 27 16 00-0107 EA	12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	238.88 47.33
26 27 16 00-0108 EA	12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	257.07 50.29
26 27 16 00-0109	6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0101)</small>	
26 27 16 00-0110 EA	6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	176.59 35.49
26 27 16 00-0111 EA	8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	194.31 38.46
26 27 16 00-0112	Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>	
26 27 16 00-0113	4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>	
26 27 16 00-0114 EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	235.22 23.66
26 27 16 00-0115 EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	283.67 32.54
26 27 16 00-0116 EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	320.31 35.49
26 27 16 00-0117 EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	366.75 41.42
26 27 16 00-0118 EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	377.87 44.37
26 27 16 00-0119 EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	444.43 47.33
26 27 16 00-0120 EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	477.00 50.29
26 27 16 00-0121 EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	541.34 53.25
26 27 16 00-0122	6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>	
26 27 16 00-0123 EA	6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	343.87 35.49
26 27 16 00-0124 EA	8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	388.13 38.46
26 27 16 00-0125 EA	8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	423.97 44.37
26 27 16 00-0126 EA	10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	501.72 53.25
26 27 16 00-0127 EA	12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	545.35 59.16
26 27 16 00-0128 EA	16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	755.41 76.91
26 27 16 00-0129 EA	18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,170.30 118.32
26 27 16 00-0130 EA	24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,526.09 136.07
26 27 16 00-0131 EA	24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,718.60 147.91
26 27 16 00-0132	8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>	
26 27 16 00-0133 EA	24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,594.53 150.86
26 27 16 00-0134 EA	24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,833.57 162.69
26 27 16 00-0135 EA	30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	2,012.87 171.57
26 27 16 00-0136 EA	30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	2,215.05 177.48
26 27 16 00-0137 EA	36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	2,185.44 177.48
26 27 16 00-0138	Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>	
26 27 16 00-0139	8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>	
26 27 16 00-0140 EA	60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	6,848.86 240.35
26 27 16 00-0141	10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>	
26 27 16 00-0142 EA	60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	6,922.03 266.22
26 27 16 00-0143 EA	60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,934.28 284.72
26 27 16 00-0144 EA	72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	9,135.65 354.96
26 27 16 00-0145 EA	72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	10,207.48 418.57
26 27 16 00-0146	12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>	
26 27 16 00-0147 EA	60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,422.39 418.57
26 27 16 00-0148 EA	60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	8,267.55 443.71
26 27 16 00-0149 EA	72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	9,381.46 473.29
26 27 16 00-0150 EA	72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	10,338.32 473.29
26 27 16 00-0151	NEMA 3 Enclosures, Lockable <small>(26 27 16)</small> Note: Can be used underground or encased in concrete.	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0152 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0153 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	340.37	103.53
26 27 16 00-0154 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0155 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	361.46	103.53
26 27 16 00-0156 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	448.71	107.23
26 27 16 00-0157 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	463.06	107.23
26 27 16 00-0158 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	569.26	110.93
26 27 16 00-0159 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0160 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	444.83	107.23
26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	482.36	107.23
26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	502.37	110.93
26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	617.66	110.93
26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	677.09	118.32
26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	727.96	125.72
26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	755.39	125.72
26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	887.76	129.41
26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	959.29	133.11
26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,295.43	147.91
26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	651.02	114.63
26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	812.57	129.41
26 27 16 00-0173 EA 8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	942.43	133.11
26 27 16 00-0174 EA 10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,077.48	136.81
26 27 16 00-0175 EA 10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,142.15	136.81
26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,295.08	147.91
26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,495.61	166.39
26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,410.45	159.00
26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,735.30	295.81
26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,665.02	369.76
26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,154.17	140.50
26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,721.97	184.87
26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,748.38	184.87
26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,382.55	277.32
26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,102.20	295.81
26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	7,751.83	517.66
26 27 16 00-0188 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0189 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,123.69	369.76
26 27 16 00-0190 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0191 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	6,277.69	443.71
26 27 16 00-0192 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	5,184.32	406.74
26 27 16 00-0193 NEMA 3R Enclosures, Lockable <small>(26 27 16)</small>		
Note: Rain-tight enclosures.		
26 27 16 00-0194 Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0193)</small>		
26 27 16 00-0195 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0194)</small>		
26 27 16 00-0196 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	117.87	29.58
26 27 16 00-0197 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	130.10	32.54
26 27 16 00-0198 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	189.04	35.49
26 27 16 00-0199 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0194)</small>		
26 27 16 00-0200 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	237.88	44.37
26 27 16 00-0201 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	266.01	50.29
26 27 16 00-0202 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	311.33	56.20
26 27 16 00-0203 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	336.14	59.16
26 27 16 00-0204 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	437.61	76.91
26 27 16 00-0205 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	524.04	94.66
26 27 16 00-0206 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	601.41	118.32
26 27 16 00-0207 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0194)</small>		
26 27 16 00-0208 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	905.39	150.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0209 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,002.85	162.69
26 27 16 00-0210 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,125.68	171.57
26 27 16 00-0211 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,183.16	177.48
26 27 16 00-0212 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0213 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,121.64	183.40
26 27 16 00-0214 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,267.01	207.07
26 27 16 00-0215 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,402.78	229.25
26 27 16 00-0216 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,545.20	252.92
26 27 16 00-0217 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,682.46	275.10
26 27 16 00-0218 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	737.30	144.94
26 27 16 00-0219 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,121.64	183.40
26 27 16 00-0220 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,320.34	189.31
26 27 16 00-0221 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,662.36	207.07
26 27 16 00-0222 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0223 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,079.14	146.43
26 27 16 00-0224 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,210.22	164.18
26 27 16 00-0225 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,339.83	181.92
26 27 16 00-0226 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,481.56	201.14
26 27 16 00-0227 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,612.64	218.90
26 27 16 00-0228 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	806.33	109.45
26 27 16 00-0229 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,079.14	146.43
26 27 16 00-0230 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,210.22	164.18
26 27 16 00-0231 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,424.14	192.28
26 27 16 00-0232 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,612.64	218.90
26 27 16 00-0233 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,534.91	215.94
26 27 16 00-0234 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,612.64	218.90
26 27 16 00-0235 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,697.12	224.82
26 27 16 00-0236 EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,886.63	236.65
26 27 16 00-0237 EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	2,043.94	248.48
26 27 16 00-0238 Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0239 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0240 EA 4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	84.12	23.66
26 27 16 00-0241 EA 6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	102.05	29.58
26 27 16 00-0242 EA 6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	112.63	32.54
26 27 16 00-0243 EA 8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	124.67	35.49
26 27 16 00-0244 EA 8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	144.84	41.42
26 27 16 00-0245 EA 10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	157.59	44.37
26 27 16 00-0246 EA 10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	171.35	47.33
26 27 16 00-0247 EA 12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	170.67	47.33
26 27 16 00-0248 EA 12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	186.02	50.29
26 27 16 00-0249 EA 12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	199.78	53.25
26 27 16 00-0250 EA 18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	302.70	82.83
26 27 16 00-0251 EA 18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	402.31	106.49
26 27 16 00-0252 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0253 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	117.85	35.49
26 27 16 00-0254 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	159.43	44.37
26 27 16 00-0255 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	180.61	50.29
26 27 16 00-0256 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	195.32	53.25
26 27 16 00-0257 EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	194.30	53.25
26 27 16 00-0258 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	209.83	56.20
26 27 16 00-0259 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	225.50	59.16
26 27 16 00-0260 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	294.19	76.91
26 27 16 00-0261 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	339.77	91.70
26 27 16 00-0262 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	451.98	118.32
26 27 16 00-0263 EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	473.10	127.20
26 27 16 00-0264 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	537.53	136.07
26 27 16 00-0265 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	603.63	147.91
26 27 16 00-0266 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0267 EA 12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	252.00	65.08
26 27 16 00-0268 EA 18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	367.15	100.57
26 27 16 00-0269 EA 18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	499.81	130.16
26 27 16 00-0270 EA 24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	594.89	150.86
26 27 16 00-0271 EA 24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	670.33	162.69
26 27 16 00-0272 EA 30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	741.56	171.57
26 27 16 00-0273 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0274 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	551.87	144.94
26 27 16 00-0275 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	738.65	183.40



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0276 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	806.31	189.31
26 27 16 00-0277 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0278 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	815.51	201.14
26 27 16 00-0279 EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	1,114.86	218.90
26 27 16 00-0280 EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	1,151.73	224.82
26 27 16 00-0281 EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	1,338.00	236.65
26 27 16 00-0282 NEMA 4 Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0283 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0284 EA 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	128.64	20.71
26 27 16 00-0285 EA 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	150.54	25.15
26 27 16 00-0286 EA 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	188.46	32.54
26 27 16 00-0287 EA 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	179.72	32.54
26 27 16 00-0288 EA 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	240.43	44.37
26 27 16 00-0289 EA 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	299.01	53.25
26 27 16 00-0290 EA 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	276.50	50.29
26 27 16 00-0291 EA 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	322.50	59.16
26 27 16 00-0292 EA 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	379.06	68.03
26 27 16 00-0293 EA 16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	460.34	85.79
26 27 16 00-0294 Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0295 EA 4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure.....	118.49	20.71
26 27 16 00-0296 EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure.....	169.60	32.54
26 27 16 00-0297 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0282)		
26 27 16 00-0298 EA 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure.....	149.41	28.40
26 27 16 00-0299 EA 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure.....	158.89	30.77
26 27 16 00-0300 EA 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure.....	195.67	40.23
26 27 16 00-0301 EA 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure.....	228.24	44.37
26 27 16 00-0302 EA 14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure.....	294.67	56.20
26 27 16 00-0303 EA 16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure.....	344.61	66.56
26 27 16 00-0304 EA 18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure.....	488.64	106.49
26 27 16 00-0305 NEMA 4X Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0306 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0307 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure.....	251.66	23.66
26 27 16 00-0308 EA 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure.....	297.86	32.54
26 27 16 00-0309 EA 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure.....	378.33	44.37
26 27 16 00-0310 EA 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure.....	459.13	53.25
26 27 16 00-0311 EA 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure.....	566.65	68.03
26 27 16 00-0312 EA 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure.....	670.51	85.79
26 27 16 00-0313 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0314 EA 4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	341.10	20.71
<i>For 316 Stainless Steel, Add</i>		
	46.29	
26 27 16 00-0315 EA 6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	444.18	29.58
<i>For 316 Stainless Steel, Add</i>		
	59.24	
26 27 16 00-0316 EA 6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	503.14	32.54
<i>For 316 Stainless Steel, Add</i>		
	67.49	
26 27 16 00-0317 EA 8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	575.49	35.49
<i>For 316 Stainless Steel, Add</i>		
	77.88	
26 27 16 00-0318 EA 10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	706.96	44.37
<i>For 316 Stainless Steel, Add</i>		
	95.36	
26 27 16 00-0319 EA 12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	993.12	56.20
<i>For 316 Stainless Steel, Add</i>		
	136.42	
26 27 16 00-0320 EA 14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	1,237.68	68.03
<i>For 316 Stainless Steel, Add</i>		
	170.81	
26 27 16 00-0321 EA 16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	1,492.84	85.79
<i>For 316 Stainless Steel, Add</i>		
	204.54	
26 27 16 00-0322 Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	160.89	32.54
26 27 16 00-0324 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	180.84	35.49
26 27 16 00-0325 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	207.15	41.42
26 27 16 00-0326 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	225.01	44.37
26 27 16 00-0327 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	259.68	50.29
26 27 16 00-0328 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	245.02	50.29
26 27 16 00-0329 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	284.86	56.20
26 27 16 00-0330 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	356.37	68.03



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0331 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	456.91	93.18
26 27 16 00-0332 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	592.15	134.15
26 27 16 00-0333 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	172.41	32.54
26 27 16 00-0334 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	194.45	35.49
26 27 16 00-0335 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	221.80	41.42
26 27 16 00-0336 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	242.79	44.37
26 27 16 00-0337 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	278.51	50.29
26 27 16 00-0338 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	262.83	50.29
26 27 16 00-0339 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	309.00	56.20
26 27 16 00-0340 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	368.93	68.03
26 27 16 00-0341 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	483.08	93.18
26 27 16 00-0342 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	620.40	134.15
26 27 16 00-0343 Hinged Cover, Polycarbonate NEMA 4X Enclosures <small>(26 27 16 00-0305)</small>		
<small>Note: NEMA 3R, 4, 4X and 12 rated.</small>		
26 27 16 00-0344 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	193.34	32.54
26 27 16 00-0345 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	207.01	35.49
26 27 16 00-0346 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	235.39	41.42
26 27 16 00-0347 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	254.32	44.37
26 27 16 00-0348 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	300.50	50.29
26 27 16 00-0349 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	277.48	50.29
26 27 16 00-0350 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	339.34	56.20
26 27 16 00-0351 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	403.48	68.03
26 27 16 00-0352 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	497.73	93.18
26 27 16 00-0353 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	645.51	134.15
26 27 16 00-0354 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	201.71	32.54
26 27 16 00-0355 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	222.70	35.49
26 27 16 00-0356 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	250.04	41.42
26 27 16 00-0357 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	270.00	44.37
26 27 16 00-0358 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	321.43	50.29
26 27 16 00-0359 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	295.26	50.29
26 27 16 00-0360 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	361.33	56.20
26 27 16 00-0361 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	413.94	68.03
26 27 16 00-0362 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	532.26	93.18
26 27 16 00-0363 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	682.15	134.15
26 27 16 00-0364 NEMA 7/9 Enclosures, Lockable <small>(26 27 16)</small>		
<small>Note: Nominal inside dimensions.</small>		
26 27 16 00-0365 4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0366 EA 6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,361.11	166.39
<i>For Mounting Pan, Add</i>	54.44	
26 27 16 00-0367 EA 6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,107.29	177.48
<i>For Mounting Pan, Add</i>	101.43	
26 27 16 00-0368 EA 8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,092.25	199.67
<i>For Mounting Pan, Add</i>	139.87	
26 27 16 00-0369 6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0370 EA 8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,871.34	199.67
<i>For Mounting Pan, Add</i>	71.12	
26 27 16 00-0371 EA 8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,411.54	205.21
<i>For Mounting Pan, Add</i>	139.87	
26 27 16 00-0372 EA 8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,473.25	221.85
<i>For Mounting Pan, Add</i>	106.99	
26 27 16 00-0373 EA 10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,535.34	221.85
<i>For Mounting Pan, Add</i>	125.18	
26 27 16 00-0374 EA 10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,566.78	277.32
<i>For Mounting Pan, Add</i>	164.22	
26 27 16 00-0375 EA 12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,356.76	249.58
<i>For Mounting Pan, Add</i>	102.54	
26 27 16 00-0376 EA 12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,481.78	277.32
<i>For Mounting Pan, Add</i>	153.43	
26 27 16 00-0377 EA 12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,413.09	499.17
<i>For Mounting Pan, Add</i>	206.42	
26 27 16 00-0378 EA 14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,266.80	332.78
<i>For Mounting Pan, Add</i>	200.98	
26 27 16 00-0379 EA 16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,657.46	554.63
<i>For Mounting Pan, Add</i>	184.51	
26 27 16 00-0380 EA 18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	6,726.56	554.63
<i>For Mounting Pan, Add</i>	299.96	
26 27 16 00-0381 8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0382 EA 8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,882.18	249.58
<i>For Mounting Pan, Add</i>	106.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0383 EA 10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,901.48 125.18	249.58
26 27 16 00-0384 EA 10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,268.98 164.22	249.58
26 27 16 00-0385 EA 12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,622.61 102.54	277.32
26 27 16 00-0386 EA 12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,313.55 153.43	499.17
26 27 16 00-0387 EA 12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,467.21 206.42	610.11
26 27 16 00-0388 EA 12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,040.00 310.43	721.03
26 27 16 00-0389 EA 14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,853.41 200.98	610.11
26 27 16 00-0390 EA 16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,004.66 184.51	610.11
26 27 16 00-0391 EA 16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,826.22 276.58	665.57
26 27 16 00-0392 EA 18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	7,319.82 299.96	610.11
26 27 16 00-0393 EA 18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,704.00 438.63	665.57
26 27 16 00-0394 EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,639.80 584.75	665.57
26 27 16 00-0395 EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	14,894.26 730.83	887.42
26 27 16 00-0396 EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	11,358.30 679.55	721.03
26 27 16 00-0397 EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	20,481.48 930.30	1,109.27
26 27 16 00-0398 10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0399 EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,429.05 310.43	721.03
26 27 16 00-0400 EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,601.13 276.58	665.57
26 27 16 00-0401 EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,458.01 438.63	721.03
26 27 16 00-0402 EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	13,144.47 730.83	776.49
26 27 16 00-0403 EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	11,675.02 679.55	776.49
26 27 16 00-0404 EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	22,263.78 930.30	1,109.27
26 27 16 00-0405 12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0406 EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,605.96 206.42	610.11
26 27 16 00-0407 Breaker Enclosures <small>(26 27 16)</small>		
See CSI section 26 24 16 00-0001 for lighting and power panel boards.		
26 27 16 00-0408 15 To 100 Amperes, F-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0409 EA NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	441.82	118.32
26 27 16 00-0410 EA NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	779.43	118.32
26 27 16 00-0411 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	1,878.80	162.69
26 27 16 00-0412 EA NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure	2,532.56	177.48
26 27 16 00-0413 EA NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure	1,862.78	177.48
26 27 16 00-0414 EA NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	689.07	162.69
26 27 16 00-0415 15 To 250 Amperes, H Or J-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0416 EA NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	696.64	162.69
26 27 16 00-0417 EA NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	1,237.27	162.69
26 27 16 00-0418 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	4,110.41	207.07
26 27 16 00-0419 EA NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	1,045.90	207.07
26 27 16 00-0420 125 To 400 Amperes, L-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0421 EA NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	1,114.28	325.39
26 27 16 00-0422 EA NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	2,447.46	325.39
26 27 16 00-0423 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	6,986.64	414.13
26 27 16 00-0424 EA NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	1,808.37	414.13
26 27 16 00-0425 300 To 800 Amperes, M-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0426 EA NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	2,177.13	621.20

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0427 EA NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	3,586.17	621.20
26 27 16 00-0428 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	12,588.41	798.68
26 27 16 00-0429 EA NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	6,935.95	798.68
26 27 16 00-0430 250 To 1,200 Amperes, P-Frame Breaker Enclosures (26 27 16 00-0407)		
26 27 16 00-0431 EA NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	2,610.26	621.20
26 27 16 00-0432 EA NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	4,271.15	621.20
26 27 16 00-0433 EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	8,651.12	798.68
26 27 16 00-0434 Legend Plates (26 27 16)		
26 27 16 00-0435 EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters	23.24	7.39
26 27 16 00-0436 EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters	30.96	7.39
26 27 23 Indoor Service Poles (26 27)		
26 27 23 00-0001 Communication And Power Poles (26 27 23)		
Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
26 27 23 00-0002 Steel Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0003 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0004 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)		
26 27 23 00-0005 EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	349.23	65.55
26 27 23 00-0006 EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	377.58	65.55
26 27 23 00-0007 EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	410.35	65.55
26 27 23 00-0008 Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)		
Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle	71.53	13.52
26 27 23 00-0010 EA Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles.....	62.59	13.52
26 27 23 00-0011 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	70.30	13.52
26 27 23 00-0012 EA Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices	53.20	13.52
26 27 23 00-0013 EA Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting	44.58	13.52
26 27 23 00-0014 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0015 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)		
26 27 23 00-0016 EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	446.42	65.55
26 27 23 00-0017 EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	507.33	65.55
26 27 23 00-0018 EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	540.21	65.55
26 27 23 00-0019 Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)		
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020 EA Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle	49.40	13.52
26 27 23 00-0021 EA Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle	44.85	13.52
26 27 23 00-0022 EA Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices	48.10	13.52
26 27 23 00-0023 3" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0024 3" Width, Steel Communication And Power Poles (26 27 23 00-0023)		
26 27 23 00-0025 EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	575.50	65.55
26 27 23 00-0026 EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	648.82	65.55
26 27 23 00-0027 EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	697.14	65.55
26 27 23 00-0028 Additional Cover Plates For 3" Width, Steel Communication And Power Poles (26 27 23 00-0023)		
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029 EA Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle	49.40	13.52
26 27 23 00-0030 EA Add-On 3" Width Steel Cover Plate For One Duplex Receptacle	44.85	13.52
26 27 23 00-0031 EA Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices.....	48.10	13.52
26 27 23 00-0032 Aluminum Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0033 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0034 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0035 EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	465.50	65.55



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0036 EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	516.76	65.55
26 27 23 00-0037 EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	574.22	65.55
26 27 23 00-0038 Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0039 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	73.28	13.52
26 27 23 00-0040 EA Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles.....	74.73	13.52
26 27 23 00-0041 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	79.55	13.52
26 27 23 00-0042 EA Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices.....	55.91	13.52
26 27 23 00-0043 EA Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting.....	44.58	13.52
26 27 23 00-0044 2-1/4" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0045 EA 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	449.49	65.55
26 27 23 00-0046 EA 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	502.06	65.55
26 27 23 00-0047 EA 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	564.00	65.55
26 27 23 00-0048 5" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0049 EA 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	917.77	65.55
26 27 23 00-0050 EA 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	1,046.71	65.55
26 27 23 00-0051 EA 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	1,191.12	65.55
26 27 23 00-0052 2" Diameter, Round Aluminum Communication And Power Pole (26 27 23 00-0032)		
26 27 23 00-0053 EA 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	508.25	65.55
26 27 23 00-0054 EA 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole.....	482.26	65.55
26 27 23 00-0055 EA 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole.....	611.95	65.55
26 27 26 Wiring Devices (26 27)		
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.		
26 27 26 00-0001 Receptacles (26 27 26)		
26 27 26 00-0002 General Use Receptacles (26 27 26 00-0001)		
26 27 26 00-0003 Receptacle Assemblies (26 27 26 00-0002)		
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.		
26 27 26 00-0004 EA 15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	122.25	52.51
26 27 26 00-0005 EA 20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	130.68	56.20
26 27 26 00-0006 EA 15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	156.41	67.29
26 27 26 00-0007 EA 20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	173.27	74.70
26 27 26 00-0008 EA 15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	136.32	52.51
26 27 26 00-0009 EA 20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	145.50	56.20
26 27 26 00-0010 Receptacle Components (26 27 26 00-0002)		
26 27 26 00-0011 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle.....	33.42	14.79
26 27 26 00-0012 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle.....	32.60	14.79
26 27 26 00-0013 EA 15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle.....	37.44	14.79
26 27 26 00-0014 EA 15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle.....	40.24	14.79
26 27 26 00-0015 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle.....	51.21	18.48
26 27 26 00-0016 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle.....	60.40	18.48
26 27 26 00-0017 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle.....	34.50	14.79
26 27 26 00-0018 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle.....	33.64	14.79
26 27 26 00-0019 EA 20 Amperes, 120/277 Volt, Single Receptacle.....	46.26	14.79
26 27 26 00-0020 EA 20 Amperes, 120/277 Volt, Duplex Receptacle.....	39.36	14.79
26 27 26 00-0021 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle.....	51.21	18.48
26 27 26 00-0022 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle.....	60.40	18.48
26 27 26 00-0023 EA 20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle.....	89.89	18.48
26 27 26 00-0024 EA 20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle.....	89.89	18.48
26 27 26 00-0025 EA 25 Amperes, 120/277 Volt, Duplex Receptacle.....	78.35	22.19
26 27 26 00-0026 Specialty Receptacles (26 27 26 00-0001)		
26 27 26 00-0027 Specialty Receptacles (26 27 26 00-0026)		
26 27 26 00-0028 EA 30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle.....	72.63	25.89
26 27 26 00-0029 EA 30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle.....	72.63	25.89
26 27 26 00-0030 EA 30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles.....	92.01	25.89
26 27 26 00-0031 EA 30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle.....	104.67	25.89
26 27 26 00-0032 EA 30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle.....	112.07	29.58
26 27 26 00-0033 EA 50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle.....	104.43	29.58
26 27 26 00-0034 EA 50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle.....	102.27	29.58
26 27 26 00-0035 EA 50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle.....	91.16	29.58
26 27 26 00-0036 EA 50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle.....	110.70	29.58
26 27 26 00-0037 EA 50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle.....	123.83	29.58
26 27 26 00-0038 EA 50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle.....	131.23	33.28

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0039 EA 60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle	144.50	36.98
26 27 26 00-0040 EA 60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle	159.29	44.37
26 27 26 00-0041 EA 100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete	1,480.29	347.57
26 27 26 00-0042 EA 400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete	3,451.24	425.22
26 27 26 00-0043 EA 30 Amperes, 230 Volt, Dryer Receptacle	86.15	29.58
26 27 26 00-0044 EA 60 Amperes, 230 Volt, Range Receptacle	126.54	44.37
26 27 26 00-0045 EA 15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle	77.15	18.48
26 27 26 00-0046 EA Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete	1,588.02	450.43
26 27 26 00-0047 Isolated Ground Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0048 EA 15 Amperes, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex	96.90	14.79
Note: 2 Pole, 3 wire.		
26 27 26 00-0049 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Simplex	66.69	18.48
26 27 26 00-0050 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Duplex	66.47	18.48
26 27 26 00-0051 EA 30 Amperes, 120 Volt Isolated Ground Receptacles, Simplex	93.96	29.58
26 27 26 00-0052 EA Locking 15 Amperes, 250 Volt Isolated Ground Receptacles	73.76	18.48
26 27 26 00-0053 EA Locking 15 Amperes, 277 Volt Isolated Ground Receptacles	68.26	18.48
26 27 26 00-0054 EA Locking 20 Amperes, 120/208 Volt Isolated Ground Receptacles	92.87	22.19
26 27 26 00-0055 EA Locking 20 Amperes, 277/480 Volt Isolated Ground Receptacles	75.73	22.19
26 27 26 00-0056 EA Locking 20 Amperes, 347/600 Volt Isolated Ground Receptacles	94.91	22.19
26 27 26 00-0057 EA Locking 30 Amperes, 120/208 Volt Isolated Ground Receptacles	113.61	22.19
26 27 26 00-0058 EA Locking 30 Amperes, 277 Volt Isolated Ground Receptacles	115.21	29.58
26 27 26 00-0059 Explosion Proof Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0060 EA 1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	936.19	36.98
26 27 26 00-0061 EA 3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	864.71	40.67
26 27 26 00-0062 EA 3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,439.69	73.95
26 27 26 00-0063 EA 3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,807.35	73.95
26 27 26 00-0064 EA 1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	2,292.54	110.93
26 27 26 00-0065 EA 1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	2,186.10	110.93
26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI) <small>(26 27 26 00-0026)</small>		
26 27 26 00-0067 EA 15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	42.98	18.48
26 27 26 00-0068 EA 20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	63.25	22.19
26 27 26 00-0069 Arc Fault Circuit Interrupter (AFCI) <small>(26 27 26 00-0026)</small>		
26 27 26 00-0070 EA 15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	73.68	18.48
26 27 26 00-0071 EA 20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	80.50	18.48
26 27 26 00-0072 Locking Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0073 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle	62.26	18.48
26 27 26 00-0074 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle	75.38	18.48
26 27 26 00-0075 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle	69.50	22.19
26 27 26 00-0076 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle	68.92	22.19
26 27 26 00-0077 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle	80.46	22.19
26 27 26 00-0078 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle	95.38	22.19
26 27 26 00-0079 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	93.72	22.19
26 27 26 00-0080 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	82.82	22.19
26 27 26 00-0081 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle	95.64	29.58
26 27 26 00-0082 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking, Receptacle	97.03	29.58
26 27 26 00-0083 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle	122.78	29.58
26 27 26 00-0084 Hospital Grade Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0085 EA 15 Amperes, Heavy Duty Hospital Grade, NEMA 5-15, Duplex Receptacle	61.51	14.79
26 27 26 00-0086 EA 20 Amperes, Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle	66.49	14.79
26 27 26 00-0087 EA 20 Amperes, Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground	75.91	14.79
26 27 26 00-0088 EA 20 Amperes, Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle	67.20	14.79
26 27 26 00-0089 EA 20 Amperes, Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground	76.95	14.79
26 27 26 00-0090 EA 20 Amperes, Non-Magnetic MRI Hospital Grade, NEMA 5-20, Duplex Receptacle	84.51	14.79
26 27 26 00-0091 EA 120 Volt, Transient Voltage, Surge Suppressor Receptacle	177.33	44.37
Note: Hospital grade receptacle.		
26 27 26 00-0092 Weathertight Pin And Sleeve Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0093 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W)	304.75	73.95
26 27 26 00-0094 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W)	304.10	73.95
26 27 26 00-0095 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W)	316.33	73.95
26 27 26 00-0096 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W)	382.99	81.35
26 27 26 00-0097 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W)	384.01	81.35
26 27 26 00-0098 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W)	381.65	81.35
26 27 26 00-0099 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W)	455.29	90.96
26 27 26 00-0100 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W)	435.39	90.96
26 27 26 00-0101 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W)	466.53	90.96
26 27 26 00-0102 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W)	473.87	99.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0103 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W).....	473.48	99.83
26 27 26 00-0104 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W).....	476.30	99.83
26 27 26 00-0105 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W).....	659.34	118.32
26 27 26 00-0106 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W).....	635.25	118.32
26 27 26 00-0107 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W).....	650.93	118.32
26 27 26 00-0108 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W).....	724.84	131.64
26 27 26 00-0109 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W).....	725.31	131.64
26 27 26 00-0110 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W).....	725.77	131.64
26 27 26 00-0111 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W).....	807.24	147.91
26 27 26 00-0112 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W).....	838.13	147.91
26 27 26 00-0113 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W).....	902.88	162.69
26 27 26 00-0114 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W).....	900.56	162.69
26 27 26 00-0115 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W).....	904.92	162.69
26 27 26 00-0116 Corrosion Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0117 EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles.....	78.65	14.79
26 27 26 00-0118 EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles.....	152.94	18.48
26 27 26 00-0119 Tamper Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0120 EA 15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle..... Note: Pass & Seymour 3232-TR.	35.21	14.79
26 27 26 00-0121 EA 20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle..... Note: Pass & Seymour TR20.	38.11	14.79
26 27 26 00-0122 EA 15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour TR5251.	46.43	14.79
26 27 26 00-0123 EA 20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour TR5351.	50.33	14.79
26 27 26 00-0124 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle..... Note: Pass & Seymour S1595-TR*CC8.	73.77	14.79
26 27 26 00-0125 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 1595-TRS.	79.36	14.79
26 27 26 00-0126 EA 20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 2095-TRS.	84.69	14.79
26 27 26 00-0127 USB Charger/Duplex Tamper-Resistant Receptacles (26 27 26 00-0026)		
26 27 26 00-0128 EA 15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	75.81	14.79
26 27 26 00-0129 EA 20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	81.59	14.79
26 27 26 00-0130 Television Receptacle (26 27 26 00-0001)		
26 27 26 00-0131 EA TV Receptacle With Cover (Type F), Complete.....	89.24	34.31
26 27 26 00-0132 Switches (26 27 26)		
26 27 26 00-0133 Switches (26 27 26 00-0132)		
26 27 26 00-0134 Switch Assemblies (26 27 26 00-0133)		
Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0135 EA 1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	125.29	51.76
26 27 26 00-0136 EA 1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	134.67	56.20
26 27 26 00-0137 EA 2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	166.20	67.66
26 27 26 00-0138 EA 2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	182.00	75.06
26 27 26 00-0139 EA 3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	286.00	116.10
26 27 26 00-0140 EA 3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	309.71	127.20
26 27 26 00-0141 EA 4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	326.74	131.27
26 27 26 00-0142 EA 4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	358.36	146.05
26 27 26 00-0143 Switch Components (26 27 26 00-0133)		
26 27 26 00-0144 EA 15 Amperes, 120/277 Volt, SPST Switch.....	37.12	14.79
26 27 26 00-0145 EA 15 Amperes, 120/277 Volt, 3-Way Switch.....	46.90	18.48
26 27 26 00-0146 EA 15 Amperes, 120/277 Volt, 4-Way Switch.....	87.93	29.58
26 27 26 00-0147 EA 15 Amperes, 120/277 Volt, DPST Switch.....	41.51	14.79
26 27 26 00-0148 EA 15 Amperes, 120/277 Volt, Thermal Switch.....	74.49	18.48
26 27 26 00-0149 EA 20 Amperes, 120/277 Volt, SPST Switch.....	45.03	18.48
26 27 26 00-0150 EA 20 Amperes, 120/277 Volt, 3-Way Switch.....	55.38	22.19
26 27 26 00-0151 EA 20 Amperes, 120/277 Volt, 4-Way Switch.....	114.03	29.58
26 27 26 00-0152 EA 20 Amperes, 120/277 Volt, DPST Switch.....	52.07	18.48
26 27 26 00-0153 EA 20 Amperes, 120/277 Volt, DPDT Switch.....	55.19	18.48
26 27 26 00-0154 EA 15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch.....	87.66	18.51
26 27 26 00-0155 EA 15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch.....	109.72	18.51
26 27 26 00-0156 EA Momentary Contact Switch With Separate Neon Pilot..... Note: Neon Pilot is 125 V, 1 / 125W.	85.05	22.22
26 27 26 00-0157 EA 20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off..... Note: Or 250 VAC 10 Amp, double throw BAT handle.	67.39	25.89

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0158 EA 20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	81.93	29.58
26 27 26 00-0159 EA 20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	114.10	29.58
26 27 26 00-0160 EA 30 Amperes, 120/277 Volt, Single Pole, Local Switch	89.85	29.62
26 27 26 00-0161 EA 30 Amperes, 120/277 Volt, Double Pole, Local Switch.....	109.68	29.62
26 27 26 00-0162 EA 30 Amperes, 120/277 Volt, Three-Way Local Switch.....	115.65	37.03
26 27 26 00-0163 EA 30 Amperes, 120/277 Volt, Four-Way Local Switch.....	159.74	40.73
26 27 26 00-0164 EA 15 Amperes, 120/277 Volt, Local Switch With Neon Pilot.....	81.03	24.22
26 27 26 00-0165 EA 15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot..... Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.	111.26	24.22
26 27 26 00-0166 EA 15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch.....	98.23	24.22
26 27 26 00-0167 EA 15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch	93.75	24.22
26 27 26 00-0168 EA 6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch.....	99.11	12.00
26 27 26 00-0169 EA 6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch.....	105.19	12.00
26 27 26 00-0170 EA 15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch	115.36	46.21
26 27 26 00-0171 EA Three Position, Center Off, Key Operated, Momentary Contact Switch	137.42	46.21
Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0172 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ)	159.78	14.81
26 27 26 00-0173 EA 8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH).....	98.00	14.81
26 27 26 00-0174 EA 120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	267.07	14.79
26 27 26 00-0175 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	55.36	14.79
26 27 26 00-0176 EA 1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	104.32	14.81
26 27 26 00-0177 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000).....	119.46	14.81
26 27 26 00-0178 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000).....	152.48	14.81
26 27 26 00-0179 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	164.53	14.81
26 27 26 00-0180 Specialty Switches (26 27 26 00-0132)		
26 27 26 00-0181 Dimmers With SPST Switch (26 27 26 00-0180)		
26 27 26 00-0182 EA 600 Watt Dimmers With SPST Switch	82.86	33.28
26 27 26 00-0183 EA 1,000 Watt Dimmers With SPST Switch	133.76	33.28
26 27 26 00-0184 EA 1,500 Watt Dimmers With SPST Switch	238.57	53.54
26 27 26 00-0185 EA 2,000 Watt Dimmers With SPST Switch	303.51	53.54
26 27 26 00-0186 EA 600 Watt Fluorescent Dimmer Switch.....	172.53	39.49
26 27 26 00-0187 EA 1,000 Watt Fluorescent Dimmer Switch.....	228.41	39.49
26 27 26 00-0188 EA 1,500 Watt Fluorescent Dimmer Switch.....	409.07	59.61
26 27 26 00-0189 EA Remote Speed Switch For Paddle Fan.....	134.46	49.25
26 27 26 00-0190 EA 600 Watt Combination Remote Speed Switch/Incandescent Dimmer	218.95	73.50
26 27 26 00-0191 Time Switches (26 27 26 00-0180)		
26 27 26 00-0192 EA 40 Amperes, 125 Volt, SPST, Standard Time Switch	147.53	44.37
26 27 26 00-0193 EA 40 Amperes, 277 Volt, SPST, Standard Time Switch	150.47	44.37
26 27 26 00-0194 EA 40 Amperes, 125 Volt, DPST, Standard Time Switch	147.53	44.37
26 27 26 00-0195 EA 40 Amperes, 277 Volt, DPST, Standard Time Switch	150.47	44.37
26 27 26 00-0196 EA 40 Amperes, 125 Volt, SPST, 7-Day Time Switch	167.13	44.37
26 27 26 00-0197 EA 40 Amperes, 277 Volt, SPST, 7-Day Time Switch	167.13	44.37
26 27 26 00-0198 EA 40 Amperes, 125 Volt, DPST, 7-Day Time Switch.....	282.75	44.37
26 27 26 00-0199 EA 40 Amperes, 277 Volt, DPST, 7-Day Time Switch.....	282.75	44.37
26 27 26 00-0200 EA 20 Amperes, 125 Volt, SPST, Programmable Time Switch	245.66	44.37
26 27 26 00-0201 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch	268.31	44.37
26 27 26 00-0202 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch.....	268.31	44.37
26 27 26 00-0203 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch	321.85	44.37
26 27 26 00-0204 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch	330.86	44.37
26 27 26 00-0205 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch	147.53	44.37
26 27 26 00-0206 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch	150.47	44.37
26 27 26 00-0207 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch	147.53	44.37
26 27 26 00-0208 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch	150.47	44.37
26 27 26 00-0209 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch	167.13	44.37
26 27 26 00-0210 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch	167.13	44.37
26 27 26 00-0211 EA 40 Amperes, 125 Volt, DPST, Weatherproof 7-Day Time Switch	282.75	44.37
26 27 26 00-0212 EA 40 Amperes, 277 Volt, DPST, Weatherproof 7-Day Time Switch	282.75	44.37
26 27 26 00-0213 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	321.85	44.37
26 27 26 00-0214 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	330.86	44.37
26 27 26 00-0215 Low Voltage Switching (26 27 26 00-0180)		
26 27 26 00-0216 EA 36 Pin Male Or Female Connector	219.65	14.79
26 27 26 00-0217 Other Switches (26 27 26 00-0180)		
26 27 26 00-0218 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture	48.02	22.19
26 27 26 00-0219 EA SPST Locking Switch For Concealed Devices	143.56	59.16
26 27 26 00-0220 EA 3-Way Locking Switch For Concealed Devices	145.17	59.16
26 27 26 00-0221 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard	155.44	55.32
26 27 26 00-0222 EA 15 Amperes Momentary Contact Switch.....	149.02	55.32
26 27 26 00-0223 EA 20 Amperes Momentary Contact Switch.....	155.78	55.32
26 27 26 00-0224 EA 2-1/4" Handy Box Cover Units Fuseholder Switch.....	152.13	66.65
26 27 26 00-0225 EA 2-3/4" Handy Box Cover Units Fuseholder Switch.....	154.02	66.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0226 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches.....	189.29	81.46
26 27 26 00-0227 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch	172.13	74.05
26 27 26 00-0228 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	172.60	74.05
26 27 26 00-0229 Plates And Covers (26 27 26)		
26 27 26 00-0230 Wall Plates (26 27 26 00-0229)		
26 27 26 00-0231 Nylon Wall Plates (26 27 26 00-0230)		
26 27 26 00-0232 EA 1 Gang Nylon Switch Wall Plates	2.20	0.74
26 27 26 00-0233 EA 2 Gang Nylon Switch Wall Plates	3.67	1.11
26 27 26 00-0234 EA 3 Gang Nylon Switch Wall Plates	5.18	1.48
26 27 26 00-0235 EA 4 Gang Nylon Switch Wall Plate	7.37	1.86
26 27 26 00-0236 EA 1 Gang Duplex Nylon Wall Plate.....	2.22	0.74
26 27 26 00-0237 EA 2 Gang Duplex Nylon Wall Plate.....	3.75	1.11
26 27 26 00-0238 Plastic Wall Plates (26 27 26 00-0230)		
26 27 26 00-0239 EA 1 Gang Plastic Switch Wall Plates	2.06	0.74
26 27 26 00-0240 EA 2 Gang Plastic Switch Wall Plates	3.38	1.11
26 27 26 00-0241 EA 3 Gang Plastic Switch Wall Plates	4.72	1.48
26 27 26 00-0242 EA 4 Gang Plastic Switch Wall Plates	7.37	1.86
26 27 26 00-0243 EA 1 Gang Duplex Plastic Wall Plate	2.06	0.74
26 27 26 00-0244 EA 2 Gang Duplex Plastic Wall Plate	3.39	1.11
26 27 26 00-0245 Brass Wall Plates (26 27 26 00-0230)		
26 27 26 00-0246 EA 1 Gang, 0.04" Brass Switch Wall Plates	20.27	3.33
26 27 26 00-0247 EA 2 Gang, 0.04" Brass Switch Wall Plates	37.24	3.85
26 27 26 00-0248 EA 3 Gang, 0.04" Brass Switch Wall Plates	54.05	4.29
26 27 26 00-0249 EA 4 Gang, 0.04" Brass Switch Wall Plates	83.46	4.66
26 27 26 00-0250 EA 5 Gang, 0.04" Brass Switch Wall Plates	101.42	4.97
26 27 26 00-0251 EA 6 Gang, 0.04" Brass Switch Wall Plates	117.21	5.19
26 27 26 00-0252 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate	20.27	3.33
26 27 26 00-0253 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate	43.43	3.85
26 27 26 00-0254 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate	62.22	4.29
26 27 26 00-0255 Stainless Steel Wall Plates (26 27 26 00-0230)		
26 27 26 00-0256 EA 1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	11.32	3.33
26 27 26 00-0257 EA 2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	17.69	3.85
26 27 26 00-0258 EA 3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	24.37	4.29
26 27 26 00-0259 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	35.25	4.66
26 27 26 00-0260 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	41.34	4.97
26 27 26 00-0261 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	49.74	5.19
26 27 26 00-0262 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	12.31	3.33
26 27 26 00-0263 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	20.01	3.85
26 27 26 00-0264 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	32.04	4.29
26 27 26 00-0265 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	38.58	4.66
26 27 26 00-0266 Chrome Wall Plates (26 27 26 00-0230)		
26 27 26 00-0267 EA 1 Gang, 0.040" Chrome Switch Wall Plate	39.53	3.33
26 27 26 00-0268 EA 2 Gang 0.040" Chrome Switch Wall Plate	73.31	3.85
26 27 26 00-0269 EA 3 Gang 0.040" Chrome Switch Wall Plate	107.04	4.29
26 27 26 00-0270 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate	39.50	3.33
26 27 26 00-0271 Weatherproof Covers (26 27 26 00-0229)		
26 27 26 00-0272 Stamped Metallic Weatherproof Covers (26 27 26 00-0271)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0273 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC)	11.56	0.74
26 27 26 00-0274 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC)	12.49	0.74
26 27 26 00-0275 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC)	12.49	0.74
26 27 26 00-0276 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC)	12.49	0.74
26 27 26 00-0277 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC)	15.42	1.11
26 27 26 00-0278 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC)	17.43	1.11
26 27 26 00-0279 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC)	17.64	1.11
26 27 26 00-0280 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC)	17.64	1.11
26 27 26 00-0281 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC)	23.78	1.11
26 27 26 00-0282 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB)	22.74	1.48
26 27 26 00-0283 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT)	24.80	1.48
26 27 26 00-0284 Cast Metallic Weatherproof Covers (26 27 26 00-0271)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0285 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC)	14.07	0.74
26 27 26 00-0286 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA)	44.11	0.74
26 27 26 00-0287 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR)	49.42	0.74

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0288 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG).....	13.97	0.74
26 27 26 00-0289 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT)	37.45	0.74
26 27 26 00-0290 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT)	62.06	0.74
26 27 26 00-0291 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST)	78.90	0.74
26 27 26 00-0292 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC).....	17.64	1.11
26 27 26 00-0293 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST).....	124.61	1.11
26 27 26 00-0294 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC)	29.33	1.48
26 27 26 00-0295 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....	119.25	1.48
26 27 26 00-0296 Die Cast Aluminum Weatherproof Covers <small>(26 27 26 00-0271)</small>		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0297 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027)	5.80	0.74
26 27 26 00-0298 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	7.39	0.74
26 27 26 00-0299 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	9.94	1.11
26 27 26 00-0300 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	10.77	1.11
26 27 26 00-0301 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042)	10.77	1.11
26 27 26 00-0302 EA Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043)	11.95	1.11
26 27 26 00-0303 Heavy Duty Die Cast Aluminum Weatherproof Covers <small>(26 27 26 00-0271)</small>		
Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0304 EA Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	57.30	0.74
26 27 26 00-0305 Polycarbonate Weatherproof Covers <small>(26 27 26 00-0271)</small>		
Note: Includes neoprene gasket.		
26 27 26 00-0306 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	11.71	0.74
26 27 26 00-0307 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.71	0.74
26 27 26 00-0308 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.71	0.74
26 27 26 00-0309 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	14.54	1.11
26 27 26 00-0310 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	14.54	1.11
26 27 26 00-0311 High Impact Thermoplastic Weatherproof Covers <small>(26 27 26 00-0271)</small>		
Note: Includes neoprene gasket.		
26 27 26 00-0312 EA Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522)	88.93	0.74
26 27 26 00-0313 Non Metallic (PVC) Weatherproof Covers <small>(26 27 26 00-0271)</small>		
Note: Includes neoprene gasket.		
26 27 26 00-0314 EA Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover	13.51	0.74
26 27 26 00-0315 EA Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover	14.60	1.11
26 27 26 00-0316 EA Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	13.56	0.74
26 27 26 00-0317 EA Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	29.60	0.74
26 27 26 00-0318 EA Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	34.27	0.74
26 27 26 00-0319 EA 20 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	27.83	0.74
26 27 26 00-0320 EA 30 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	20.79	0.74
26 27 26 00-0321 EA 50 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	24.30	0.74
26 27 26 00-0322 EA Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	21.75	0.74
26 27 26 00-0323 EA Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover	31.32	1.11
26 27 26 00-0324 Removal And Reinstallation Of Wiring Devices <small>(26 27 26)</small>		
Note: Includes storage and cleaning.		
26 27 26 00-0325 EA Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device.....	97.31	
26 27 26 00-0326 EA Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate.....	12.32	
26 27 26 00-0327 Relay Systems <small>(26 27 26)</small>		
26 27 26 00-0328 EA 10 Amperes, 24 Volt Coil, 2 Position Relay	105.41	33.28
26 27 26 00-0329 EA 20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay	434.43	110.93
26 27 26 00-0330 EA 20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay	721.31	147.91
26 27 26 00-0331 Limit Switches <small>(26 27 26)</small>		
26 27 26 00-0332 Heavy Duty Precision Oiltight <small>(26 27 26 00-0331)</small>		
26 27 26 00-0333 Lever Arm, Plunger, Wobble Stick Type <small>(26 27 26 00-0332)</small>		
26 27 26 00-0334 EA Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amperes Rated	465.17	93.18
26 27 26 00-0335 In Line Midget Fuseholders <small>(26 27 26)</small>		
See CSI section 26 28 13 00-0078 for fuses.		
26 27 26 00-0336 EA Single Pole Water Resistant In Line Midget Fuseholder	98.96	
26 27 26 00-0337 EA Double Pole Water Resistant In Line Midget Fuseholder.....	215.43	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 27 33 Power Distribution Units (26 27)

Note: Includes wiring connections and testing.

26 27 33 00-0001	Liebert Precision Power Center (26 27 33)		
	Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.		
26 27 33 00-0002	EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C)	20,688.95	454.80
26 27 33 00-0003	EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C)	24,962.73	492.96
26 27 33 00-0004	EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C)	28,444.18	547.24
26 27 33 00-0005	EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C)	32,715.04	591.61
26 27 33 00-0006	EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C)	35,729.11	739.52
26 27 33 00-0007	EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C)	40,102.31	887.42
26 27 33 00-0008	EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C)	46,274.35	1,035.33
26 27 33 00-0009	EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C)	48,688.81	1,183.22
26 27 33 00-0010	EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C)	51,463.02	1,331.13
26 27 33 00-0011	EA Ex Panelboard 10-30 KVA	1,870.80	147.91
26 27 33 00-0012	EA Ex Panelboard 50-125 KVA	2,784.21	184.87
26 27 33 00-0013	EA Ex Panelboard 150-220 KVA	6,216.02	221.85
26 27 33 00-0014	EA Removal And Reinstallation Of Power Distribution Unit	2,366.45	
	Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.		
26 27 33 00-0015	EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only	1,774.84	

26 27 73 Door Chimes (26 27)

26 27 73 00-0001	Door Bell Chime And Door Button With Built-In Viewer (26 27 73)		
	Note: Non-electric chime, mounted on door		
26 27 73 00-0002	EA Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV)	84.03	18.19
26 27 73 00-0003	Wireless Door Bell System (26 27 73)		
26 27 73 00-0004	EA Wireless Doorbell Chime And Push Button (Broan LA542WH)	151.31	
	Note: Includes 2 push buttons		
26 27 73 00-0005	EA Wireless Doorbell Chime And Push Button (STI-3350G)	143.32	
	Note: Includes 2 push buttons		
26 27 73 00-0006	EA Wireless Doorbell Chime And Push Button (GE 19300)	110.68	
	Note: Includes 2 push buttons		
26 27 73 00-0007	Door Chimes (26 27 73)		
26 27 73 00-0008	EA Door Bell, Push-Button And Transformer, Complete	775.10	308.08
26 27 73 00-0009	EA Visual Flashing Doorbell Indicator, Wire To Existing System, Complete	297.04	73.95
26 27 73 00-0010	EA Removal And Replacement Of Bell/Buzzer, Complete	122.94	36.98
	Note: Includes removal of existing.		

26 28 Low-Voltage Circuit Protective Devices (26 20)

26 28 13 Fuses (26 28)			
26 28 13 00-0001	125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26 28 13)		
26 28 13 00-0002	EA 1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.16 7.10	10.65
26 28 13 00-0003	EA 2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.57 7.10	10.65
26 28 13 00-0004	EA 3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.75 7.10	10.65
26 28 13 00-0005	EA 5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.64 7.10	10.65
26 28 13 00-0006	EA 6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.40 7.10	10.65
26 28 13 00-0007	EA 8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.91 7.10	10.65
26 28 13 00-0008	EA 10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.56 7.10	10.65
26 28 13 00-0009	EA 15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.67 7.10	10.65
26 28 13 00-0010	EA 20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.23 7.10	10.65
26 28 13 00-0011	EA 25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.07 7.10	10.65
26 28 13 00-0012	EA 30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.49 7.10	10.65
26 28 13 00-0013	Class RK1, Time Delay Fuses (26 28 13)		
26 28 13 00-0014	250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)		
26 28 13 00-0015	EA 1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.39 7.10	10.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0056 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	55.85	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0057 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	78.46	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0058 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	78.64	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0059 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	77.21	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0060 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	77.88	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0061 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	78.48	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses <small>(26 28)</small>		
<small>13 00-0013)</small>		
26 28 13 00-0063 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	143.49	13.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.87	
26 28 13 00-0064 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	147.58	14.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.76	
26 28 13 00-0065 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	146.82	14.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.76	
26 28 13 00-0066 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	147.42	14.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.76	
26 28 13 00-0067 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	263.23	14.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.76	
26 28 13 00-0068 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	267.08	14.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.76	
26 28 13 00-0069 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	265.68	18.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.98	
26 28 13 00-0070 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	265.05	18.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.98	
26 28 13 00-0071 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	495.86	18.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.98	
26 28 13 00-0072 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	501.17	22.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.64	
26 28 13 00-0073 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	563.51	22.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.64	
26 28 13 00-0074 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	511.76	22.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.64	
26 28 13 00-0075 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	909.00	22.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.64	
26 28 13 00-0076 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	813.90	26.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.75	
26 28 13 00-0077 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	711.86	26.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.75	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses <small>(26 28 13)</small>		
Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amperes, 600 Volt AC, Class CC Midget Fuse.....	51.35	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0080 EA 2 Amperes, 600 Volt AC, Class CC Midget Fuse.....	52.04	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0081 EA 3 Amperes, 600 Volt AC, Class CC Midget Fuse.....	51.84	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0082 EA 5 Amperes, 600 Volt AC, Class CC Midget Fuse.....	51.63	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0083 EA 6 Amperes, 600 Volt AC, Class CC Midget Fuse.....	54.90	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0084 EA 8 Amperes, 600 Volt AC, Class CC Midget Fuse.....	49.66	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0085 EA 10 Amperes, 600 Volt AC, Class CC Midget Fuse.....	55.81	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0086 EA 15 Amperes, 600 Volt AC, Class CC Midget Fuse.....	51.65	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0087 EA 20 Amperes, 600 Volt AC, Class CC Midget Fuse.....	50.79	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0088 EA 25 Amperes, 600 Volt AC, Class CC Midget Fuse.....	48.83	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0089 EA 30 Amperes, 600 Volt AC, Class CC Midget Fuse.....	50.49	10.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.10	
26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse <small>(26 28 13)</small>		
26 28 13 00-0091 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	62.29	7.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.44	
26 28 13 00-0092 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	62.74	7.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.44	
26 28 13 00-0093 EA 6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	55.36	8.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.33	
26 28 13 00-0094 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	56.15	11.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.66	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0095	EA		15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....57.24 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.66		11.09
26 28 13 00-0096	EA		20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....56.27 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.66		11.09
26 28 13 00-0097	EA		25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....72.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.87		14.79
26 28 13 00-0098	EA		30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....61.10 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.87		14.79
26 28 13 00-0099	EA		35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....101.77 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.87		14.79
26 28 13 00-0100	EA		40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....87.75 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.87		14.79
26 28 13 00-0101	EA		45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....99.62 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.87		14.79
26 28 13 00-0102	EA		50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....90.91 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 11.09		18.48
26 28 13 00-0103	EA		60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....89.40 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 11.09		18.48
26 28 13 00-0104	EA		70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....135.81 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.31		22.19
26 28 13 00-0105	EA		80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....144.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.31		22.19
26 28 13 00-0106	EA		90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....142.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.31		22.19
26 28 13 00-0107	EA		100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....127.35 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.53		25.89
26 28 13 00-0108	EA		110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....282.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.53		25.89
26 28 13 00-0109	EA		125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....241.81 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.53		25.89
26 28 13 00-0110	EA		150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....232.80 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 17.75		29.58
26 28 13 00-0111	EA		175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....236.04 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 17.75		29.58
26 28 13 00-0112	EA		200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....198.23 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 17.75		29.58
26 28 13 00-0113	EA		225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....481.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 17.75		29.58
26 28 13 00-0114	EA		250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....445.71 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 17.75		29.58
26 28 13 00-0115	EA		300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....411.75 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 17.75		29.58
26 28 13 00-0116	EA		350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....447.89 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 17.75		29.58
26 28 13 00-0117	EA		400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....373.77 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 19.97		33.28
26 28 13 00-0118	EA		450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....777.02 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 19.97		33.28
26 28 13 00-0119	EA		500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....663.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 22.19		36.98
26 28 13 00-0120	EA		600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse .....497.78 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 22.19		36.98
26 28 13 00-0121			600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses <small>(26 28 13)</small>		
26 28 13 00-0122	EA		100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,466.23 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 11.09		18.48
26 28 13 00-0123	EA		150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,469.11 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 11.09		18.48
26 28 13 00-0124	EA		200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,471.79 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 11.09		18.48
26 28 13 00-0125	EA		250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,468.88 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.31		22.19
26 28 13 00-0126	EA		300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,353.66 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.31		22.19
26 28 13 00-0127	EA		350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,449.48 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.53		25.89
26 28 13 00-0128	EA		400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,335.09 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.53		25.89
26 28 13 00-0129	EA		450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,491.73 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.53		25.89
26 28 13 00-0130	EA		500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,462.87 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.53		25.89
26 28 13 00-0131	EA		600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,304.36 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 17.75		29.58
26 28 13 00-0132	EA		601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,339.08 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 17.75		29.58
26 28 13 00-0133	EA		650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,775.42 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 17.75		29.58
26 28 13 00-0134	EA		700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,298.07 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 17.75		29.58
26 28 13 00-0135	EA		750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse .....1,987.17 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 19.97		33.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0136 EA 800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,151.71	33.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.97	
26 28 13 00-0137 EA 900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,674.09	33.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.97	
26 28 13 00-0138 EA 1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,132.62	33.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.97	
26 28 13 00-0139 EA 1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,165.82	33.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.97	
26 28 13 00-0140 EA 1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,571.05	33.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.97	
26 28 13 00-0141 EA 1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,535.16	33.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.97	
26 28 13 00-0142 EA 1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,288.95	33.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.97	
26 28 13 00-0143 EA 1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,438.30	36.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 28 13 00-0144 EA 1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,027.15	36.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 28 13 00-0145 EA 2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,944.74	36.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 28 13 00-0146 EA 2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,622.35	36.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 28 13 00-0147 EA 2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,453.99	36.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 28 13 00-0148 EA 3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,923.09	40.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.41	
26 28 13 00-0149 EA 3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	6,022.61	40.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.41	
26 28 13 00-0150 EA 3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	6,984.96	40.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.41	
26 28 13 00-0151 EA 4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,047.79	40.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.41	
26 28 13 00-0152 EA 5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	6,375.96	40.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.41	
26 28 13 00-0153 EA 6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	10,541.05	40.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.41	

26 28 16 Enclosed Switches and Circuit Breakers (26 28)

26 28 16 13 Enclosed Circuit Breakers (26 28 16)

26 28 16 13-0001 Branch Circuit Breakers (26 28 16 13)

Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.

26 28 16 13-0002 Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)

Note: Includes connection of electrical wire.

26 28 16 13-0003 EA 1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	68.48	26.62
For Bolt-On, Add	18.91	
For Installation In New Panelboard, Deduct	-14.79	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.75	
26 28 16 13-0004 EA 1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	68.48	26.62
For Bolt-On, Add	18.91	
For Installation In New Panelboard, Deduct	-14.79	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.75	
26 28 16 13-0005 EA 1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	95.46	33.28
For Bolt-On, Add	24.87	
For Installation In New Panelboard, Deduct	-18.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 28 16 13-0006 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	132.44	33.28
For Bolt-On, Add	29.50	
For Installation In New Panelboard, Deduct	-18.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 28 16 13-0007 EA 1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	174.73	33.28
For Bolt-On, Add	34.78	
For Installation In New Panelboard, Deduct	-18.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 28 16 13-0008 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	198.84	33.28
For Bolt-On, Add	37.80	
For Installation In New Panelboard, Deduct	-18.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 28 16 13-0009 EA 1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	109.14	33.28
For Bolt-On, Add	26.58	
For Installation In New Panelboard, Deduct	-18.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0010	EA	2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	110.25	39.93
		<i>For Bolt-On, Add</i>	29.31	
		<i>For Installation In New Panelboard, Deduct</i>	-22.19	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.62	
26 28 16 13-0011	EA	2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	110.25	39.93
		<i>For Bolt-On, Add</i>	29.31	
		<i>For Installation In New Panelboard, Deduct</i>	-22.19	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.62	
26 28 16 13-0012	EA	2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	161.34	53.25
		<i>For Bolt-On, Add</i>	40.87	
		<i>For Installation In New Panelboard, Deduct</i>	-29.58	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 28 16 13-0013	EA	2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	251.89	66.56
		<i>For Bolt-On, Add</i>	57.37	
		<i>For Installation In New Panelboard, Deduct</i>	-36.98	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.37	
26 28 16 13-0014	EA	2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	293.19	73.95
		<i>For Bolt-On, Add</i>	65.12	
		<i>For Installation In New Panelboard, Deduct</i>	-40.67	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.81	
26 28 16 13-0015	EA	2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	238.58	47.33
		<i>For Bolt-On, Add</i>	48.46	
		<i>For Installation In New Panelboard, Deduct</i>	-26.62	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.95	
26 28 16 13-0016	EA	2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	307.75	47.33
		<i>For Bolt-On, Add</i>	57.10	
		<i>For Installation In New Panelboard, Deduct</i>	-26.62	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.95	
26 28 16 13-0017	EA	3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	193.61	53.25
		<i>For Bolt-On, Add</i>	44.91	
		<i>For Installation In New Panelboard, Deduct</i>	-29.58	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 28 16 13-0018	EA	3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	193.61	53.25
		<i>For Bolt-On, Add</i>	44.91	
		<i>For Installation In New Panelboard, Deduct</i>	-29.58	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 28 16 13-0019	EA	3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	251.48	66.56
		<i>For Bolt-On, Add</i>	57.32	
		<i>For Installation In New Panelboard, Deduct</i>	-36.98	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.37	
26 28 16 13-0020	EA	3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	365.64	79.86
		<i>For Bolt-On, Add</i>	76.76	
		<i>For Installation In New Panelboard, Deduct</i>	-44.37	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.24	
26 28 16 13-0021	EA	3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	460.32	93.18
		<i>For Bolt-On, Add</i>	93.78	
		<i>For Installation In New Panelboard, Deduct</i>	-51.77	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.12	
26 28 16 13-0022		Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On ^{(26 28} ^{16 13-0001)}		
		<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0023	EA	1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	90.39	26.62
		<i>For Bolt-On, Add</i>	21.65	
		<i>For Installation In New Panelboard, Deduct</i>	-14.79	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.75	
26 28 16 13-0024	EA	1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	90.39	26.62
		<i>For Bolt-On, Add</i>	21.65	
		<i>For Installation In New Panelboard, Deduct</i>	-14.79	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.75	
26 28 16 13-0025	EA	1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	151.47	33.28
		<i>For Bolt-On, Add</i>	31.88	
		<i>For Installation In New Panelboard, Deduct</i>	-18.49	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.19	
26 28 16 13-0026	EA	1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	222.57	33.28
		<i>For Bolt-On, Add</i>	40.76	
		<i>For Installation In New Panelboard, Deduct</i>	-18.49	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.19	



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0027 EA 2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	167.93	39.93
For Bolt-On, Add	36.52	
For Installation In New Panelboard, Deduct	-22.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 28 16 13-0028 EA 2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	167.93	39.93
For Bolt-On, Add	36.52	
For Installation In New Panelboard, Deduct	-22.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 28 16 13-0029 EA 2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	312.90	53.25
For Bolt-On, Add	59.82	
For Installation In New Panelboard, Deduct	-29.58	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0030 EA 2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	422.09	66.56
For Bolt-On, Add	78.65	
For Installation In New Panelboard, Deduct	-36.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.37	
26 28 16 13-0031 EA 2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	602.98	73.95
For Bolt-On, Add	103.84	
For Installation In New Panelboard, Deduct	-40.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.81	
26 28 16 13-0032 EA 3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	260.54	53.25
For Bolt-On, Add	53.27	
For Installation In New Panelboard, Deduct	-29.58	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0033 EA 3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	260.54	53.25
For Bolt-On, Add	53.27	
For Installation In New Panelboard, Deduct	-29.58	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0034 EA 3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	380.47	66.56
For Bolt-On, Add	73.44	
For Installation In New Panelboard, Deduct	-36.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.37	
26 28 16 13-0035 EA 3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	530.87	79.86
For Bolt-On, Add	97.42	
For Installation In New Panelboard, Deduct	-44.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.24	
26 28 16 13-0036 EA 3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	800.63	93.18
For Bolt-On, Add	136.32	
For Installation In New Panelboard, Deduct	-51.77	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.12	
26 28 16 13-0037 EA 3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	918.53	99.83
For Bolt-On, Add	153.64	
For Installation In New Panelboard, Deduct	-55.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.56	
26 28 16 13-0038 EA 3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	986.27	106.49
For Bolt-On, Add	164.70	
For Installation In New Panelboard, Deduct	-59.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.00	
26 28 16 13-0039 EA 3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,158.04	113.14
For Bolt-On, Add	188.76	
For Installation In New Panelboard, Deduct	-62.86	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.43	
26 28 16 13-0040 Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0041 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	104.79	26.62
For Bolt-On, Add	23.45	
For Installation In New Panelboard, Deduct	-14.79	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.75	
26 28 16 13-0042 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	104.79	26.62
For Bolt-On, Add	23.45	
For Installation In New Panelboard, Deduct	-14.79	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.75	
26 28 16 13-0043 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	165.70	33.28
For Bolt-On, Add	33.65	
For Installation In New Panelboard, Deduct	-18.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0044 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	205.46	39.93
For Bolt-On, Add	41.21	
For Installation In New Panelboard, Deduct	-22.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 28 16 13-0045 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	205.46	39.93
For Bolt-On, Add	41.21	
For Installation In New Panelboard, Deduct	-22.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 28 16 13-0046 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	348.89	53.25
For Bolt-On, Add	64.32	
For Installation In New Panelboard, Deduct	-29.58	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0047 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	846.33	66.56
For Bolt-On, Add	131.68	
For Installation In New Panelboard, Deduct	-36.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.37	
26 28 16 13-0048 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	322.47	53.25
For Bolt-On, Add	61.01	
For Installation In New Panelboard, Deduct	-29.58	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0049 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	322.47	53.25
For Bolt-On, Add	61.01	
For Installation In New Panelboard, Deduct	-29.58	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0050 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	425.55	66.56
For Bolt-On, Add	79.08	
For Installation In New Panelboard, Deduct	-36.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.37	
26 28 16 13-0051 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	1,045.94	79.86
For Bolt-On, Add	161.80	
For Installation In New Panelboard, Deduct	-44.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.24	
26 28 16 13-0052 Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
16 13-0001)		
Note: Includes connection of electrical wire.		
26 28 16 13-0053 EA 15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	117.02	26.62
For Bolt-On, Add	24.98	
For Installation In New Panelboard, Deduct	-14.79	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.75	
26 28 16 13-0054 EA 35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	117.02	26.62
For Bolt-On, Add	24.98	
For Installation In New Panelboard, Deduct	-14.79	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.75	
26 28 16 13-0055 EA 70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	139.24	33.28
For Bolt-On, Add	30.35	
For Installation In New Panelboard, Deduct	-18.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 28 16 13-0056 EA 15 To 30 Amperes, 1 Pole GFI, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	220.94	33.28
For Bolt-On, Add	40.56	
For Installation In New Panelboard, Deduct	-18.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 28 16 13-0057 EA 15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	237.36	39.93
For Bolt-On, Add	45.20	
For Installation In New Panelboard, Deduct	-22.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 28 16 13-0058 EA 35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	237.36	39.93
For Bolt-On, Add	45.20	
For Installation In New Panelboard, Deduct	-22.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 28 16 13-0059 EA 70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	291.09	53.25
For Bolt-On, Add	57.09	
For Installation In New Panelboard, Deduct	-29.58	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0060 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	412.78	66.56
For Bolt-On, Add	77.48	
For Installation In New Panelboard, Deduct	-36.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0061 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	525.22	73.95
For Bolt-On, Add	94.12	
For Installation In New Panelboard, Deduct	-40.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.81	
26 28 16 13-0062 EA 250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	652.48	86.53
For Bolt-On, Add	115.21	
For Installation In New Panelboard, Deduct	-48.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.68	
26 28 16 13-0063 EA 300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	708.33	99.83
For Bolt-On, Add	127.37	
For Installation In New Panelboard, Deduct	-55.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.56	
26 28 16 13-0064 EA 15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	291.63	53.25
For Bolt-On, Add	57.16	
For Installation In New Panelboard, Deduct	-29.58	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0065 EA 35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	291.63	53.25
For Bolt-On, Add	57.16	
For Installation In New Panelboard, Deduct	-29.58	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0066 EA 70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	344.84	66.56
For Bolt-On, Add	68.99	
For Installation In New Panelboard, Deduct	-36.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.37	
26 28 16 13-0067 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	509.76	79.86
For Bolt-On, Add	94.78	
For Installation In New Panelboard, Deduct	-44.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.24	
26 28 16 13-0068 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	667.95	103.53
For Bolt-On, Add	123.61	
For Installation In New Panelboard, Deduct	-57.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.78	
26 28 16 13-0069 EA 250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	820.11	119.80
For Bolt-On, Add	149.10	
For Installation In New Panelboard, Deduct	-66.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.87	
26 28 16 13-0070 EA 300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	871.53	127.20
For Bolt-On, Add	158.12	
For Installation In New Panelboard, Deduct	-70.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.31	
26 28 16 13-0071 Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0072 EA 15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	245.33	39.93
For Bolt-On, Add	46.20	
For Installation In New Panelboard, Deduct	-22.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 28 16 13-0073 EA 35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	245.33	39.93
For Bolt-On, Add	46.20	
For Installation In New Panelboard, Deduct	-22.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 28 16 13-0074 EA 70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	368.13	53.25
For Bolt-On, Add	66.72	
For Installation In New Panelboard, Deduct	-29.58	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0075 EA 110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	584.94	66.56
For Bolt-On, Add	99.00	
For Installation In New Panelboard, Deduct	-36.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.37	
26 28 16 13-0076 EA 150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	897.75	82.83
For Bolt-On, Add	144.57	
For Installation In New Panelboard, Deduct	-46.22	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.46	
26 28 16 13-0077 EA 250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,012.54	86.53
For Bolt-On, Add	160.22	
For Installation In New Panelboard, Deduct	-48.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.68	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0078	EA		300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,109.84	99.83
			<i>For Bolt-On, Add</i>	177.55	
			<i>For Installation In New Panelboard, Deduct</i>	-55.46	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.56	
26 28 16 13-0079	EA		15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	349.85	53.25
			<i>For Bolt-On, Add</i>	64.44	
			<i>For Installation In New Panelboard, Deduct</i>	-29.58	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 28 16 13-0080	EA		35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	349.85	53.25
			<i>For Bolt-On, Add</i>	64.44	
			<i>For Installation In New Panelboard, Deduct</i>	-29.58	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 28 16 13-0081	EA		70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	440.37	66.56
			<i>For Bolt-On, Add</i>	80.93	
			<i>For Installation In New Panelboard, Deduct</i>	-36.98	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.37	
26 28 16 13-0082	EA		110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	725.74	79.86
			<i>For Bolt-On, Add</i>	121.78	
			<i>For Installation In New Panelboard, Deduct</i>	-44.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.24	
26 28 16 13-0083	EA		150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,051.81	103.53
			<i>For Bolt-On, Add</i>	171.60	
			<i>For Installation In New Panelboard, Deduct</i>	-57.31	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.78	
26 28 16 13-0084	EA		250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,241.06	119.80
			<i>For Bolt-On, Add</i>	201.72	
			<i>For Installation In New Panelboard, Deduct</i>	-66.56	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.87	
26 28 16 13-0085	EA		300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,340.67	127.20
			<i>For Bolt-On, Add</i>	216.76	
			<i>For Installation In New Panelboard, Deduct</i>	-70.26	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.31	
26 28 16 13-0086			Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
			<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0087	EA		2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	253.25	39.93
			<i>For Bolt-On, Add</i>	47.19	
			<i>For Installation In New Panelboard, Deduct</i>	-22.19	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.62	
26 28 16 13-0088	EA		2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	253.25	39.93
			<i>For Bolt-On, Add</i>	47.19	
			<i>For Installation In New Panelboard, Deduct</i>	-22.19	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.62	
26 28 16 13-0089	EA		2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	441.25	53.25
			<i>For Bolt-On, Add</i>	75.86	
			<i>For Installation In New Panelboard, Deduct</i>	-29.58	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 28 16 13-0090	EA		2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	787.67	66.56
			<i>For Bolt-On, Add</i>	124.34	
			<i>For Installation In New Panelboard, Deduct</i>	-36.98	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.37	
26 28 16 13-0091	EA		2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,232.87	82.83
			<i>For Bolt-On, Add</i>	186.46	
			<i>For Installation In New Panelboard, Deduct</i>	-46.22	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.46	
26 28 16 13-0092	EA		2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,397.96	86.53
			<i>For Bolt-On, Add</i>	208.39	
			<i>For Installation In New Panelboard, Deduct</i>	-48.07	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.68	
26 28 16 13-0093	EA		2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,525.75	99.83
			<i>For Bolt-On, Add</i>	229.54	
			<i>For Installation In New Panelboard, Deduct</i>	-55.46	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.56	
26 28 16 13-0094	EA		3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	404.69	53.25
			<i>For Bolt-On, Add</i>	71.29	
			<i>For Installation In New Panelboard, Deduct</i>	-29.58	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0095	EA		3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	404.69	53.25
			<i>For Bolt-On, Add</i>	71.29	
			<i>For Installation In New Panelboard, Deduct</i>	-29.58	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 28 16 13-0096	EA		3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	535.42	66.56
			<i>For Bolt-On, Add</i>	92.81	
			<i>For Installation In New Panelboard, Deduct</i>	-36.98	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.37	
26 28 16 13-0097	EA		3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	957.38	79.86
			<i>For Bolt-On, Add</i>	150.73	
			<i>For Installation In New Panelboard, Deduct</i>	-44.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.24	
26 28 16 13-0098	EA		3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,211.05	103.53
			<i>For Bolt-On, Add</i>	191.50	
			<i>For Installation In New Panelboard, Deduct</i>	-57.31	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.78	
26 28 16 13-0099	EA		3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,902.81	119.80
			<i>For Bolt-On, Add</i>	284.44	
			<i>For Installation In New Panelboard, Deduct</i>	-66.56	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.87	
26 28 16 13-0100	EA		3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	2,025.83	127.20
			<i>For Bolt-On, Add</i>	302.41	
			<i>For Installation In New Panelboard, Deduct</i>	-70.26	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.31	
26 28 16 13-0101			Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
			<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0102	EA		1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	136.98	26.62
			<i>For Bolt-On, Add</i>	27.48	
			<i>For Installation In New Panelboard, Deduct</i>	-14.79	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.75	
26 28 16 13-0103	EA		1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	136.98	26.62
			<i>For Bolt-On, Add</i>	27.48	
			<i>For Installation In New Panelboard, Deduct</i>	-14.79	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.75	
26 28 16 13-0104	EA		1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	228.62	33.28
			<i>For Bolt-On, Add</i>	41.52	
			<i>For Installation In New Panelboard, Deduct</i>	-18.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.19	
26 28 16 13-0105	EA		2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	285.68	39.93
			<i>For Bolt-On, Add</i>	51.24	
			<i>For Installation In New Panelboard, Deduct</i>	-22.19	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.62	
26 28 16 13-0106	EA		2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	285.68	39.93
			<i>For Bolt-On, Add</i>	51.24	
			<i>For Installation In New Panelboard, Deduct</i>	-22.19	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.62	
26 28 16 13-0107	EA		2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	508.36	53.25
			<i>For Bolt-On, Add</i>	84.25	
			<i>For Installation In New Panelboard, Deduct</i>	-29.58	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 28 16 13-0108	EA		2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	921.72	66.56
			<i>For Bolt-On, Add</i>	141.10	
			<i>For Installation In New Panelboard, Deduct</i>	-36.98	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.37	
26 28 16 13-0109	EA		2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,762.32	82.83
			<i>For Bolt-On, Add</i>	252.64	
			<i>For Installation In New Panelboard, Deduct</i>	-46.22	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.46	
26 28 16 13-0110	EA		3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	463.21	53.25
			<i>For Bolt-On, Add</i>	78.61	
			<i>For Installation In New Panelboard, Deduct</i>	-29.58	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 28 16 13-0111	EA		3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	463.21	53.25
			<i>For Bolt-On, Add</i>	78.61	
			<i>For Installation In New Panelboard, Deduct</i>	-29.58	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0112 EA 3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	616.73	66.56
<i>For Bolt-On, Add</i>	102.98	
<i>For Installation In New Panelboard, Deduct</i>	-36.98	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.37	
26 28 16 13-0113 EA 3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,134.08	79.86
<i>For Bolt-On, Add</i>	172.82	
<i>For Installation In New Panelboard, Deduct</i>	-44.37	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.24	
26 28 16 13-0114 EA 3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	2,190.98	103.53
<i>For Bolt-On, Add</i>	313.99	
<i>For Installation In New Panelboard, Deduct</i>	-57.31	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.78	
26 28 16 13-0115 Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
^{16 13-0001)}		
<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0116 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	193.21	26.62
<i>For Bolt-On, Add</i>	34.50	
<i>For Installation In New Panelboard, Deduct</i>	-14.79	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.75	
26 28 16 13-0117 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity	193.21	26.62
<i>For Bolt-On, Add</i>	34.50	
<i>For Installation In New Panelboard, Deduct</i>	-14.79	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.75	
26 28 16 13-0118 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	288.42	33.28
<i>For Bolt-On, Add</i>	48.99	
<i>For Installation In New Panelboard, Deduct</i>	-18.49	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.19	
26 28 16 13-0119 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	350.74	39.93
<i>For Bolt-On, Add</i>	59.37	
<i>For Installation In New Panelboard, Deduct</i>	-22.19	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.62	
26 28 16 13-0120 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	350.74	39.93
<i>For Bolt-On, Add</i>	59.37	
<i>For Installation In New Panelboard, Deduct</i>	-22.19	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.62	
26 28 16 13-0121 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	648.41	53.25
<i>For Bolt-On, Add</i>	101.76	
<i>For Installation In New Panelboard, Deduct</i>	-29.58	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 28 16 13-0122 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,159.35	66.56
<i>For Bolt-On, Add</i>	170.80	
<i>For Installation In New Panelboard, Deduct</i>	-36.98	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.37	
26 28 16 13-0123 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	2,276.96	73.95
<i>For Bolt-On, Add</i>	313.09	
<i>For Installation In New Panelboard, Deduct</i>	-40.67	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.81	
26 28 16 13-0124 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	593.57	53.25
<i>For Bolt-On, Add</i>	94.90	
<i>For Installation In New Panelboard, Deduct</i>	-29.58	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 28 16 13-0125 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	593.57	53.25
<i>For Bolt-On, Add</i>	94.90	
<i>For Installation In New Panelboard, Deduct</i>	-29.58	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50	
26 28 16 13-0126 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	818.14	66.56
<i>For Bolt-On, Add</i>	128.15	
<i>For Installation In New Panelboard, Deduct</i>	-36.98	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.37	
26 28 16 13-0127 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,310.78	79.86
<i>For Bolt-On, Add</i>	194.91	
<i>For Installation In New Panelboard, Deduct</i>	-44.37	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.24	
26 28 16 13-0128 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	2,879.71	103.53
<i>For Bolt-On, Add</i>	400.08	
<i>For Installation In New Panelboard, Deduct</i>	-57.31	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.78	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0129			Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On <small>(26 28)</small>		
			<small>16 13-0001</small> Note: Includes connection of electrical wire.		
26 28 16 13-0130	EA		15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	96.15	26.62
			For Bolt-On, Add	22.37	
			For Installation In New Panelboard, Deduct	-14.79	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.75	
26 28 16 13-0131	EA		15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	192.97	39.93
			For Bolt-On, Add	39.65	
			For Installation In New Panelboard, Deduct	-22.19	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 28 16 13-0132	EA		15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	299.89	53.25
			For Bolt-On, Add	58.19	
			For Installation In New Panelboard, Deduct	-29.58	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0133	EA		15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	183.57	26.62
			For Bolt-On, Add	33.30	
			For Installation In New Panelboard, Deduct	-14.79	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.75	
26 28 16 13-0134	EA		35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	183.57	26.62
			For Bolt-On, Add	33.30	
			For Installation In New Panelboard, Deduct	-14.79	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.75	
26 28 16 13-0135	EA		70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	365.70	53.25
			For Bolt-On, Add	66.42	
			For Installation In New Panelboard, Deduct	-29.58	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0136	EA		15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	404.33	39.93
			For Bolt-On, Add	66.07	
			For Installation In New Panelboard, Deduct	-22.19	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 28 16 13-0137	EA		35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	404.33	39.93
			For Bolt-On, Add	66.07	
			For Installation In New Panelboard, Deduct	-22.19	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62	
26 28 16 13-0138	EA		70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	769.19	53.25
			For Bolt-On, Add	116.85	
			For Installation In New Panelboard, Deduct	-29.58	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0139	EA		110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	1,293.39	66.56
			For Bolt-On, Add	187.56	
			For Installation In New Panelboard, Deduct	-36.98	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.37	
26 28 16 13-0140	EA		150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	2,814.76	82.83
			For Bolt-On, Add	384.20	
			For Installation In New Panelboard, Deduct	-46.22	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.46	
26 28 16 13-0141	EA		15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	670.24	53.25
			For Bolt-On, Add	104.49	
			For Installation In New Panelboard, Deduct	-29.58	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0142	EA		35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	670.24	53.25
			For Bolt-On, Add	104.49	
			For Installation In New Panelboard, Deduct	-29.58	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.50	
26 28 16 13-0143	EA		70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	929.43	66.56
			For Bolt-On, Add	142.06	
			For Installation In New Panelboard, Deduct	-36.98	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.37	
26 28 16 13-0144	EA		110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	1,408.27	79.86
			For Bolt-On, Add	207.09	
			For Installation In New Panelboard, Deduct	-44.37	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.24	
26 28 16 13-0145	EA		150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	3,499.92	103.53
			For Bolt-On, Add	477.61	
			For Installation In New Panelboard, Deduct	-57.31	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.78	

26 28 16 16 Enclosed Switches (26 28 16)

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 28 16 16-0001		Motor And Circuit Disconnects <small>(26 28 16 16)</small> Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.		
26 28 16 16-0002		NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0003		Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small> Note: Includes fuses and neutral bar.		
26 28 16 16-0004		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0005	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	495.87	147.91
26 28 16 16-0006	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	756.57	178.22
26 28 16 16-0007	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,024.50	208.55
26 28 16 16-0008	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,752.05	328.34
26 28 16 16-0009	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,646.53	510.26
26 28 16 16-0010	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,048.41	754.31
26 28 16 16-0011	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,191.91	887.42
26 28 16 16-0012	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,933.15	1,035.33
26 28 16 16-0013		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0014	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	729.18	164.32
26 28 16 16-0015	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	879.62	198.04
26 28 16 16-0016	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,363.90	231.47
26 28 16 16-0017	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,026.33	365.32
26 28 16 16-0018	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,324.94	566.77
26 28 16 16-0019	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,722.63	837.73
26 28 16 16-0020	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,835.00	985.48
26 28 16 16-0021	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	13,354.45	1,150.39
26 28 16 16-0022		240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0023	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	714.72	232.21
26 28 16 16-0024	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,038.68	308.38
26 28 16 16-0025	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,368.06	342.40
26 28 16 16-0026	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,161.69	536.15
26 28 16 16-0027	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,392.39	880.02
26 28 16 16-0028	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,060.41	1,232.77
26 28 16 16-0029		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0030	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	914.05	256.61
26 28 16 16-0031	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,168.47	342.40
26 28 16 16-0032	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,671.45	385.29
26 28 16 16-0033	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,469.43	587.17
26 28 16 16-0034	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,348.68	948.06
26 28 16 16-0035	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,541.36	1,369.58
26 28 16 16-0036	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	13,359.06	1,626.94



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0037 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	16,979.18	1,848.79
26 28 16 16-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0039 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	695.51	232.21
26 28 16 16-0040 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,013.85	308.38
26 28 16 16-0041 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,322.88	342.40
26 28 16 16-0042 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,223.82	536.15
26 28 16 16-0043 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,742.51	880.02
26 28 16 16-0044 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,587.15	1,232.77
26 28 16 16-0045 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,352.27	1,552.98
26 28 16 16-0046 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	15,173.43	1,774.84
26 28 16 16-0047 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0048 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	984.55	256.61
26 28 16 16-0049 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,255.11	342.40
26 28 16 16-0050 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,798.13	385.29
26 28 16 16-0051 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,659.07	587.17
26 28 16 16-0052 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,753.28	948.06
26 28 16 16-0053 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,255.92	1,369.58
26 28 16 16-0054 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	14,545.41	1,626.94
26 28 16 16-0055 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	18,260.68	1,848.79
26 28 16 16-0056 Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0057 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0058 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	483.72	214.02
26 28 16 16-0059 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	741.22	297.73
26 28 16 16-0060 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,001.60	342.40
26 28 16 16-0061 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,572.20	547.83
26 28 16 16-0062 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,115.47	913.00
26 28 16 16-0063 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,021.09	1,245.05
26 28 16 16-0064 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,087.44	1,479.03
26 28 16 16-0065 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,292.34	1,726.18
26 28 16 16-0066 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0067 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	534.22	236.20
26 28 16 16-0068 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	838.40	334.12
26 28 16 16-0069 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,130.15	380.41
26 28 16 16-0070 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,755.29	595.46
26 28 16 16-0071 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,351.58	978.23
26 28 16 16-0072 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,552.72	1,369.43
26 28 16 16-0073 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,812.64	1,479.03

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0074 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,285.47	1,726.18
26 28 16 16-0075 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0076 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	573.08	192.28
26 28 16 16-0077 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	865.52	267.70
26 28 16 16-0078 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,144.55	308.38
26 28 16 16-0079 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,802.07	493.25
26 28 16 16-0080 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,536.39	821.60
26 28 16 16-0081 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,612.53	1,120.37
26 28 16 16-0082 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,399.81	1,331.13
26 28 16 16-0083 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	12,170.72	1,552.98
26 28 16 16-0084 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0085 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	626.26	212.24
26 28 16 16-0086 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	954.40	300.99
26 28 16 16-0087 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,250.76	342.40
26 28 16 16-0088 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,946.10	536.15
26 28 16 16-0089 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,788.97	880.02
26 28 16 16-0090 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,077.45	1,232.77
26 28 16 16-0091 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,879.15	1,331.13
26 28 16 16-0092 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0093 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	662.03	212.53
26 28 16 16-0094 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,015.41	300.68
26 28 16 16-0095 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,349.97	342.40
26 28 16 16-0096 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,098.92	535.85
26 28 16 16-0097 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,002.73	880.31
26 28 16 16-0098 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,710.11	1,232.47
26 28 16 16-0099 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,601.82	1,331.13
26 28 16 16-0100 EA 1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	13,788.83	1,552.98
26 28 16 16-0101 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0102 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	916.68	192.57
26 28 16 16-0103 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,123.22	268.01
26 28 16 16-0104 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,676.06	308.08
26 28 16 16-0105 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,529.00	492.96
26 28 16 16-0106 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0107 EA 30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	994.50	212.24
26 28 16 16-0108 EA 60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,230.54	300.99



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0109 EA 100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,820.24	342.40
26 28 16 16-0110 EA 200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,724.96	536.15
26 28 16 16-0111 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0112 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,094.07	212.53
26 28 16 16-0113 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,340.37	300.68
26 28 16 16-0114 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,017.75	342.40
26 28 16 16-0115 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,012.67	535.85
26 28 16 16-0116 General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small> Note: Includes fuses and neutral bar.		
26 28 16 16-0117 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0118 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	355.73	128.67
26 28 16 16-0119 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	475.73	154.85
26 28 16 16-0120 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	706.18	181.04
26 28 16 16-0121 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,284.95	285.60
26 28 16 16-0122 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,950.38	442.97
26 28 16 16-0123 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,440.26	655.66
26 28 16 16-0124 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0125 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	502.53	202.19
26 28 16 16-0126 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	701.54	268.01
26 28 16 16-0127 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	939.52	297.73
26 28 16 16-0128 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,647.01	466.04
26 28 16 16-0129 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,598.14	765.55
26 28 16 16-0130 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,277.65	1,071.70
26 28 16 16-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0132 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	548.98	202.19
26 28 16 16-0133 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	776.44	268.01
26 28 16 16-0134 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,007.67	297.73
26 28 16 16-0135 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,818.73	466.04
26 28 16 16-0136 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,891.65	765.55
26 28 16 16-0137 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,463.70	1,071.70
26 28 16 16-0138 General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0139 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0140 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	487.50	178.96
26 28 16 16-0141 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	634.36	205.73
26 28 16 16-0142 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,371.81	328.79

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0143 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,871.41	547.24
26 28 16 16-0144 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,880.46	745.73
26 28 16 16-0145 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0146 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	459.83	167.42
26 28 16 16-0147 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	631.64	232.95
26 28 16 16-0148 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	922.02	268.01
26 28 16 16-0149 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,572.43	428.77
26 28 16 16-0150 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,207.08	714.66
26 28 16 16-0151 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,339.29	974.09
26 28 16 16-0152 NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0153 Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small> Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0154 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0155 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	708.77	173.78
26 28 16 16-0156 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,097.07	208.55
26 28 16 16-0157 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,363.04	242.56
26 28 16 16-0158 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,001.77	369.76
26 28 16 16-0159 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,322.13	591.61
26 28 16 16-0160 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,463.91	789.06
26 28 16 16-0161 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,058.17	887.42
26 28 16 16-0162 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,589.95	1,035.33
26 28 16 16-0163 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0164 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,189.60	231.62
26 28 16 16-0165 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,420.20	283.97
26 28 16 16-0166 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,981.22	326.13
26 28 16 16-0167 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,804.72	489.12
26 28 16 16-0168 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,985.12	800.30
26 28 16 16-0169 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,840.00	1,100.54
26 28 16 16-0170 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	15,780.20	1,267.24
26 28 16 16-0171 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,397.19	1,426.52
26 28 16 16-0172 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0173 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	927.57	273.63
26 28 16 16-0174 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,439.93	362.37
26 28 16 16-0175 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,717.86	397.86
26 28 16 16-0176 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,559.16	616.02
26 28 16 16-0177 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,397.41	1,027.19



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0178 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,849.31	1,369.58
26 28 16 16-0179 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches⁽²⁶⁾ <small>28 16 16-0153)</small>		
26 28 16 16-0180 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,377.19	324.35
26 28 16 16-0181 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,647.93	397.56
26 28 16 16-0182 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,172.31	456.43
26 28 16 16-0183 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,165.32	684.79
26 28 16 16-0184 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,521.61	1,120.51
26 28 16 16-0185 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,563.53	1,540.71
26 28 16 16-0186 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,186.92	1,774.84
26 28 16 16-0187 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	19,319.39	1,996.70
26 28 16 16-0188 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches⁽²⁶⁾ <small>28 16 16-0153)</small>		
26 28 16 16-0189 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,006.35	273.63
26 28 16 16-0190 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,442.21	362.37
26 28 16 16-0191 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,828.62	397.86
26 28 16 16-0192 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,633.04	616.02
26 28 16 16-0193 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,465.18	1,027.19
26 28 16 16-0194 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,594.75	1,369.58
26 28 16 16-0195 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	15,685.93	1,552.98
26 28 16 16-0196 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	19,480.87	1,774.84
26 28 16 16-0197 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches⁽²⁶⁾ <small>28 16 16-0153)</small>		
26 28 16 16-0198 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,422.39	324.65
26 28 16 16-0199 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,698.75	397.86
26 28 16 16-0200 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,285.26	456.28
26 28 16 16-0201 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,238.73	684.79
26 28 16 16-0202 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,787.03	1,120.37
26 28 16 16-0203 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,868.48	1,540.41
26 28 16 16-0204 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,147.18	1,774.84
26 28 16 16-0205 EA 1,200 Amperes, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	20,585.13	1,996.70
26 28 16 16-0206 Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches^(26 28 16 16-0152)		
26 28 16 16-0207 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches^(26 28 16 16-0206)		
26 28 16 16-0208 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	667.18	152.20
26 28 16 16-0209 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,072.61	210.76
26 28 16 16-0210 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,394.61	241.68
26 28 16 16-0211 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,886.48	391.35
26 28 16 16-0212 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,103.26	652.84

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0213 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,340.81	870.41
26 28 16 16-0214 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,648.60	1,035.77
26 28 16 16-0215 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,296.28	1,183.66
26 28 16 16-0216 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0217 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	749.56	167.72
26 28 16 16-0218 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,213.77	234.73
26 28 16 16-0219 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,571.28	265.04
26 28 16 16-0220 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,083.33	410.87
26 28 16 16-0221 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,631.92	684.79
26 28 16 16-0222 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,913.75	913.00
26 28 16 16-0223 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,414.22	1,085.02
26 28 16 16-0224 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	16,294.26	1,232.47
26 28 16 16-0225 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0226 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	819.34	228.21
26 28 16 16-0227 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,283.30	316.07
26 28 16 16-0228 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,636.27	362.51
26 28 16 16-0229 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,277.76	587.02
26 28 16 16-0230 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,812.82	979.11
26 28 16 16-0231 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,322.34	1,305.24
26 28 16 16-0232 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,808.44	1,552.98
26 28 16 16-0233 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	16,833.22	1,774.84
26 28 16 16-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0235 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	891.84	251.44
26 28 16 16-0236 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,402.06	352.16
26 28 16 16-0237 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,771.53	397.56
26 28 16 16-0238 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,415.29	616.32
26 28 16 16-0239 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,112.44	1,027.04
26 28 16 16-0240 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,857.94	1,369.43
26 28 16 16-0241 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,649.09	1,626.94
26 28 16 16-0242 EA 1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	17,927.52	1,848.79
26 28 16 16-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0244 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	532.47	251.44
26 28 16 16-0245 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,448.54	352.16
26 28 16 16-0246 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,836.34	397.56
26 28 16 16-0247 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,494.16	616.32
26 28 16 16-0248 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,316.66	1,027.04
26 28 16 16-0249 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,826.73	1,369.43



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0250 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,631.61	1,626.94
26 28 16 16-0251 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,903.73	1,848.79
26 28 16 16-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small> Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0253 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small>		
26 28 16 16-0254 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	453.46	151.15
26 28 16 16-0255 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	625.61	181.33
26 28 16 16-0256 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	810.67	210.91
26 28 16 16-0257 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,613.16	321.54
26 28 16 16-0258 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,825.60	514.41
26 28 16 16-0259 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,680.46	686.27
26 28 16 16-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small>		
26 28 16 16-0261 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	628.14	238.27
26 28 16 16-0262 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	893.69	315.18
26 28 16 16-0263 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,079.81	345.80
26 28 16 16-0264 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,042.84	535.85
26 28 16 16-0265 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,584.83	893.04
26 28 16 16-0266 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,699.75	1,191.21
26 28 16 16-0267 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small>		
26 28 16 16-0268 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	693.23	238.12
26 28 16 16-0269 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	959.13	315.18
26 28 16 16-0270 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,290.14	345.80
26 28 16 16-0271 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,178.62	535.85
26 28 16 16-0272 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,672.04	893.19
26 28 16 16-0273 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,379.87	1,191.21
26 28 16 16-0274 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,818.86	1,349.46
26 28 16 16-0275 General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small>		
26 28 16 16-0276 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0275)</small>		
26 28 16 16-0277 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	407.37	132.37
26 28 16 16-0278 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	651.90	183.25
26 28 16 16-0279 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	693.03	210.17
26 28 16 16-0280 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,651.13	340.18
26 28 16 16-0281 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,932.55	567.65
26 28 16 16-0282 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,824.59	756.82

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0283		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0275)</small>		
26 28 16 16-0284	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	633.76	198.49
26 28 16 16-0285	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	907.52	274.81
26 28 16 16-0286	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,290.09	315.18
26 28 16 16-0287	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,204.06	510.41
26 28 16 16-0288		NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0289		Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small> Note: With fuses and neutral bar (stainless steel).		
26 28 16 16-0290		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0291	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,743.41	147.91
26 28 16 16-0292	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,094.52	178.22
26 28 16 16-0293	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,204.47	208.25
26 28 16 16-0294	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,833.21	328.65
26 28 16 16-0295	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,788.89	509.97
26 28 16 16-0296	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,954.87	754.01
26 28 16 16-0297		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0298	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,202.12	164.32
26 28 16 16-0299	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,455.56	197.90
26 28 16 16-0300	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,548.60	231.32
26 28 16 16-0301	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,445.42	365.32
26 28 16 16-0302	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,259.41	567.06
26 28 16 16-0303	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,589.08	837.73
26 28 16 16-0304		240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0305	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,988.44	232.50
26 28 16 16-0306	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,499.64	308.08
26 28 16 16-0307	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,660.06	342.40
26 28 16 16-0308	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,646.15	535.85
26 28 16 16-0309	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,885.94	880.31
26 28 16 16-0310	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,378.76	1,232.47
26 28 16 16-0311		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0312	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,392.83	256.76
26 28 16 16-0313	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,750.83	342.40
26 28 16 16-0314	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,868.88	385.14
26 28 16 16-0315	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,906.34	586.88
26 28 16 16-0316	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,325.07	948.06
26 28 16 16-0317	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,970.02	1,369.43



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0318 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0319 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,356.78	232.50
26 28 16 16-0320 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,960.12	308.08
26 28 16 16-0321 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,581.47	342.40
26 28 16 16-0322 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,906.14	535.85
26 28 16 16-0323 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,365.76	880.31
26 28 16 16-0324 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	21,786.63	1,232.47
26 28 16 16-0325 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0326 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,828.08	256.76
26 28 16 16-0327 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,244.39	342.40
26 28 16 16-0328 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,809.41	385.14
26 28 16 16-0329 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,176.86	586.88
26 28 16 16-0330 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,838.34	948.06
26 28 16 16-0331 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	22,424.35	1,369.43
26 28 16 16-0332 Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0333 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0334 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,675.44	147.91
26 28 16 16-0335 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,050.84	205.73
26 28 16 16-0336 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,793.12	236.65
26 28 16 16-0337 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,285.03	378.04
26 28 16 16-0338 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,595.40	629.48
26 28 16 16-0339 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,723.23	857.54
26 28 16 16-0340 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0341 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,903.13	163.14
26 28 16 16-0342 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,334.78	230.73
26 28 16 16-0343 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,319.95	262.98
26 28 16 16-0344 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,997.73	410.87
26 28 16 16-0345 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,879.80	676.21
26 28 16 16-0346 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,616.95	946.58
26 28 16 16-0347 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0348 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,764.80	192.57
26 28 16 16-0349 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,149.07	268.01
26 28 16 16-0350 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,255.53	308.08
26 28 16 16-0351 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,305.82	492.96
26 28 16 16-0352 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,172.25	821.75

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0353 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,644.60	1,120.51
26 28 16 16-0354 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0355 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,001.73	212.53
26 28 16 16-0356 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,474.67	300.68
26 28 16 16-0357 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,478.80	342.40
26 28 16 16-0358 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,247.62	535.85
26 28 16 16-0359 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,389.33	880.31
26 28 16 16-0360 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,640.64	1,232.47
26 28 16 16-0361 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0362 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,394.53	192.57
26 28 16 16-0363 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,887.70	268.01
26 28 16 16-0364 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,366.75	308.08
26 28 16 16-0365 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,722.64	492.96
26 28 16 16-0366 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0367 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,721.42	212.53
26 28 16 16-0368 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,289.02	300.68
26 28 16 16-0369 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,256.71	342.40
26 28 16 16-0370 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,056.47	535.85
26 28 16 16-0371 Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0372 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0373 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,169.14	256.61
26 28 16 16-0374 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,634.57	342.40
26 28 16 16-0375 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,430.38	385.29
26 28 16 16-0376 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,408.13	587.17
26 28 16 16-0377 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0378 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,955.21	212.24
26 28 16 16-0379 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,413.25	300.99
26 28 16 16-0380 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,069.18	342.40
26 28 16 16-0381 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,281.22	536.15
26 28 16 16-0382 Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0383 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0384 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,607.40	256.61



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0385 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	4,124.97	342.40
26 28 16 16-0386 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	7,357.79	385.29
26 28 16 16-0387 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0388 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,369.88	212.24
26 28 16 16-0389 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,877.58	300.99
26 28 16 16-0390 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	6,959.34	342.40
26 28 16 16-0391 NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
<small>Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.</small>		
26 28 16 16-0392 Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small>		
<small>Note: With fuses and neutral bar.</small>		
26 28 16 16-0393 EA 30 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,894.38	295.81
26 28 16 16-0394 EA 60 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	3,276.40	352.16
26 28 16 16-0395 EA 100 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	3,636.61	397.56
26 28 16 16-0396 EA 200 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	7,615.64	616.32
26 28 16 16-0397 Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small>		
26 28 16 16-0398 EA 60 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,302.64	352.16
26 28 16 16-0399 EA 100 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,688.27	397.56
26 28 16 16-0400 EA 200 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	4,891.05	616.32
26 28 16 16-0401 NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0402 Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small>		
<small>Note: With fuses and neutral bar.</small>		
26 28 16 16-0403 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0404 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	678.13	147.91
26 28 16 16-0405 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	878.91	178.22
26 28 16 16-0406 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,183.79	208.55
26 28 16 16-0407 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,986.56	328.34
26 28 16 16-0408 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,154.26	510.26
26 28 16 16-0409 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,426.33	754.31
26 28 16 16-0410 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0411 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,034.60	164.18
26 28 16 16-0412 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,079.41	198.19
26 28 16 16-0413 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,530.93	231.47
26 28 16 16-0414 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,396.68	365.32
26 28 16 16-0415 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,126.85	566.47
26 28 16 16-0416 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	10,015.01	837.87
26 28 16 16-0417 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0418 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	954.46	232.21
26 28 16 16-0419 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,315.93	308.38
26 28 16 16-0420 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,761.61	342.40

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0421 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,630.35	536.15
26 28 16 16-0422 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,086.99	880.02
26 28 16 16-0423 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	8,086.41	1,232.77
26 28 16 16-0424 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0425 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,247.71	256.61
26 28 16 16-0426 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,435.83	342.40
26 28 16 16-0427 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,063.55	385.29
26 28 16 16-0428 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,014.86	587.17
26 28 16 16-0429 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,193.77	948.06
26 28 16 16-0430 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	11,469.66	1,369.58
26 28 16 16-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0432 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,012.90	232.21
26 28 16 16-0433 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,356.07	308.38
26 28 16 16-0434 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,887.61	342.40
26 28 16 16-0435 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,788.55	536.15
26 28 16 16-0436 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,510.56	880.02
26 28 16 16-0437 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	8,372.56	1,232.77
26 28 16 16-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0439 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,315.46	256.61
26 28 16 16-0440 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,616.55	342.40
26 28 16 16-0441 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,187.81	385.29
26 28 16 16-0442 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,252.04	587.17
26 28 16 16-0443 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,577.78	948.06
26 28 16 16-0444 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	11,785.90	1,369.58
26 28 16 16-0445 Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small>		
26 28 16 16-0446 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0447 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	706.57	213.72
26 28 16 16-0448 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	941.21	298.02
26 28 16 16-0449 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,232.21	342.40
26 28 16 16-0450 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,775.08	547.98
26 28 16 16-0451 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,815.84	913.30
26 28 16 16-0452 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,981.79	1,245.35
26 28 16 16-0453 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0454 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	786.84	235.91
26 28 16 16-0455 EA 60 Amperes, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase	1,046.94	334.27
26 28 16 16-0456 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,372.99	380.11



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0457 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,928.73	595.31
26 28 16 16-0458 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,044.62	978.38
26 28 16 16-0459 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,608.76	1,369.58
26 28 16 16-0460 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0445)		
26 28 16 16-0461 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	910.87	192.28
26 28 16 16-0462 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,204.49	267.70
26 28 16 16-0463 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,583.46	308.38
26 28 16 16-0464 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,282.42	493.25
26 28 16 16-0465 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,717.21	821.60
26 28 16 16-0466 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,370.41	1,120.37
26 28 16 16-0467 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0445)		
26 28 16 16-0468 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	901.65	212.24
26 28 16 16-0469 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,307.15	300.99
26 28 16 16-0470 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,701.25	342.40
26 28 16 16-0471 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,274.63	536.15
26 28 16 16-0472 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,759.47	880.02
26 28 16 16-0473 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,733.56	1,232.77
26 28 16 16-0474 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0445)		
26 28 16 16-0475 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,078.05	192.28
26 28 16 16-0476 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,299.57	267.70
26 28 16 16-0477 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,972.95	308.38
26 28 16 16-0478 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,130.41	493.25
26 28 16 16-0479 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,552.36	628.59
26 28 16 16-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0445)		
26 28 16 16-0481 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,125.28	212.24
26 28 16 16-0482 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,420.09	300.99
26 28 16 16-0483 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,113.51	342.40
26 28 16 16-0484 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,229.02	536.15
26 28 16 16-0485 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,973.52	828.26
26 28 16 16-0486 Double Throw Safety Switches ^(26 28 16 16-0001)		
26 28 16 16-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches ^(26 28 16 16-0486)		
26 28 16 16-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches ^(26 28 16 16-0487)		
26 28 16 16-0489 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	853.24	190.05
26 28 16 16-0490 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,246.07	248.48
26 28 16 16-0491 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,737.27	324.65
26 28 16 16-0492 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,311.90	422.26
26 28 16 16-0493 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,362.63	528.02
26 28 16 16-0494 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,705.79	846.74
26 28 16 16-0495 EA 800 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,227.53	1,183.22

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0496 EA 1,000 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,364.45	1,331.13
26 28 16 16-0497 EA 1,200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,242.67	1,479.03
26 28 16 16-0498 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0499 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,088.25	266.22
26 28 16 16-0500 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,508.50	347.57
26 28 16 16-0501 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,240.25	454.80
26 28 16 16-0502 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,256.04	591.61
26 28 16 16-0503 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,394.74	739.52
26 28 16 16-0504 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,386.16	1,183.22
26 28 16 16-0505 EA 800 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,133.56	1,331.13
26 28 16 16-0506 EA 1,000 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	17,167.22	1,479.03
26 28 16 16-0507 EA 1,200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	20,297.72	1,626.94
26 28 16 16-0508 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0509 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,436.75	332.78
26 28 16 16-0510 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,068.41	434.84
26 28 16 16-0511 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,581.18	567.95
26 28 16 16-0512 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,888.20	738.04
26 28 16 16-0513 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,603.47	924.39
26 28 16 16-0514 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,287.52	1,481.25
26 28 16 16-0515 EA 800 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	15,442.31	1,626.94
26 28 16 16-0516 EA 1,000 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	20,338.49	1,700.88
26 28 16 16-0517 EA 1,200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	22,754.63	1,774.84
26 28 16 16-0518 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0519 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,422.27	248.48
26 28 16 16-0520 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,116.99	324.65
26 28 16 16-0521 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,095.93	422.26
26 28 16 16-0522 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,095.74	528.02
26 28 16 16-0523 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,518.01	846.74
26 28 16 16-0524 EA 800 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,113.68	1,183.22
26 28 16 16-0525 EA 1,000 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	17,734.66	1,331.13
26 28 16 16-0526 EA 1,200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	20,871.13	1,479.03
26 28 16 16-0527 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0528 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,620.25	347.57
26 28 16 16-0529 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,376.59	454.80
26 28 16 16-0530 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,433.17	591.61
26 28 16 16-0531 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,518.38	739.52
26 28 16 16-0532 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,192.86	1,183.22
26 28 16 16-0533 EA 800 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	13,080.69	1,331.13
26 28 16 16-0534 EA 1,000 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	17,843.84	1,479.03
26 28 16 16-0535 EA 1,200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	22,002.12	1,626.94
26 28 16 16-0536 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0537 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,178.81	434.84
26 28 16 16-0538 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,740.36	567.95
26 28 16 16-0539 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,218.09	738.04
26 28 16 16-0540 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,305.64	924.39
26 28 16 16-0541 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	13,072.90	1,481.25
26 28 16 16-0542 EA 800 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,661.15	1,626.94
26 28 16 16-0543 EA 1,000 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	22,032.16	1,700.88
26 28 16 16-0544 EA 1,200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	24,675.12	1,774.84
26 28 16 16-0545 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0546 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0546)</small>		
26 28 16 16-0547 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,136.57	324.65
26 28 16 16-0548 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,762.76	422.26
26 28 16 16-0549 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	15,235.59	528.02
26 28 16 16-0550 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	26,213.51	846.74
26 28 16 16-0551 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0552 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,812.84	454.06
26 28 16 16-0553 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,480.48	590.87
26 28 16 16-0554 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	15,791.83	739.52
26 28 16 16-0555 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	17,324.55	1,185.45
26 28 16 16-0556 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0557 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,666.44	332.93
26 28 16 16-0558 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,315.87	434.54
26 28 16 16-0559 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,631.42	567.80
26 28 16 16-0560 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,663.23	738.33
26 28 16 16-0561 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,172.74	924.39
26 28 16 16-0562 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	13,204.39	1,481.39
26 28 16 16-0563 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0564 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,800.59	248.48
26 28 16 16-0565 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,717.78	324.65
26 28 16 16-0566 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,875.69	422.26
26 28 16 16-0567 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,260.50	528.02
26 28 16 16-0568 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	12,436.07	846.74
26 28 16 16-0569 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0570 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,068.15	347.57
26 28 16 16-0571 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,086.50	454.06
26 28 16 16-0572 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,425.05	590.87
26 28 16 16-0573 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	10,114.98	739.52
26 28 16 16-0574 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	13,675.57	1,185.45
26 28 16 16-0575 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0576 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,341.41	434.54
26 28 16 16-0577 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,643.13	567.80
26 28 16 16-0578 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,825.83	738.33
26 28 16 16-0579 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,153.54	924.39
26 28 16 16-0580 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	13,310.22	1,481.39
26 28 16 16-0581 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0582 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0583 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,101.32	190.20
26 28 16 16-0584 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,394.19	248.33
26 28 16 16-0585 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,727.66	324.50
26 28 16 16-0586 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,739.64	421.96
26 28 16 16-0587 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,876.31	528.17
26 28 16 16-0588 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,115.47	846.45
26 28 16 16-0589 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0590 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,435.13	266.22
26 28 16 16-0591 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,894.15	347.57
26 28 16 16-0592 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,452.38	454.06
26 28 16 16-0593 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,795.20	590.87
26 28 16 16-0594 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,596.31	739.52
26 28 16 16-0595 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	11,447.87	1,185.45
26 28 16 16-0596 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0597 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,610.28	332.93
26 28 16 16-0598 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,243.19	434.54
26 28 16 16-0599 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,805.66	567.80
26 28 16 16-0600 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,873.52	738.33
26 28 16 16-0601 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	14,385.77	924.39
26 28 16 16-0602 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	18,015.04	1,481.39
26 28 16 16-0603 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0604 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,124.80	248.33
26 28 16 16-0605 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,312.93	324.50
26 28 16 16-0606 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,198.87	421.96
26 28 16 16-0607 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,910.91	528.17
26 28 16 16-0608 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	12,024.18	846.45
26 28 16 16-0609 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0610 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,461.77	347.57
26 28 16 16-0611 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,712.87	454.06
26 28 16 16-0612 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,817.66	590.87
26 28 16 16-0613 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,746.65	739.52
26 28 16 16-0614 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	13,241.56	1,185.45
26 28 16 16-0615 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0616 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,284.81	434.54
26 28 16 16-0617 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,112.70	567.80
26 28 16 16-0618 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,054.49	738.33
26 28 16 16-0619 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	14,775.31	924.39
26 28 16 16-0620 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	18,531.36	1,481.39
26 28 16 16-0621 Removal And Reinstallation Of Disconnect Switches <small>(26 28 16 16-0001)</small> Note: Includes storage and cleaning.		
26 28 16 16-0622 EA Removal And Reinstallation Of Up To 100 Amperes Safety Disconnect Switch.....	739.52	
26 28 16 16-0623 EA Removal And Reinstallation Of >100 To 200 Amperes Safety Disconnect Switch	961.41	
26 28 16 16-0624 EA Removal And Reinstallation Of >200 To 300 Amperes Safety Disconnect Switch	1,072.38	
26 28 16 16-0625 EA Removal And Reinstallation Of >300 To 400 Amperes Safety Disconnect Switch	1,257.25	
26 28 16 16-0626 Bolted Contact Switches <small>(26 28 16 16)</small> Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 16-0627 Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0628 Top Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0627)</small>		
26 28 16 16-0629 EA 800 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480).....	10,331.38	1,479.03
26 28 16 16-0630 EA 1,200 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480).....	11,239.33	1,774.84
26 28 16 16-0631 EA 1,600 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480).....	12,275.06	2,070.64
26 28 16 16-0632 EA 2,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480).....	13,018.76	2,366.45
26 28 16 16-0633 EA 2,500 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480).....	14,699.34	2,662.25
26 28 16 16-0634 EA 3,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480).....	18,314.50	2,958.06
26 28 16 16-0635 EA 4,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480).....	24,547.10	3,549.67
26 28 16 16-0636 Bottom Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0627)</small>		
26 28 16 16-0637 EA 800 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480).....	10,921.49	1,479.03
26 28 16 16-0638 EA 1,200 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480).....	11,945.03	1,774.84
26 28 16 16-0639 EA 1,600 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480).....	12,974.67	2,070.64
26 28 16 16-0640 EA 2,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480).....	14,022.55	2,366.45
26 28 16 16-0641 EA 2,500 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480).....	15,782.22	2,662.25
26 28 16 16-0642 EA 3,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480).....	20,346.42	2,958.06
26 28 16 16-0643 EA 4,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480).....	26,664.19	3,549.67
26 28 16 16-0644 Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0645 Top Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0644)</small>		
26 28 16 16-0646 EA 800 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480).....	7,678.93	1,479.03
26 28 16 16-0647 EA 1,200 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480).....	8,618.52	1,774.84
26 28 16 16-0648 EA 1,600 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480).....	9,608.01	2,070.64
26 28 16 16-0649 EA 2,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480).....	10,590.19	2,366.45
26 28 16 16-0650 EA 2,500 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480).....	11,633.21	2,662.25
26 28 16 16-0651 EA 3,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480).....	15,248.36	2,958.06
26 28 16 16-0652 EA 4,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480).....	21,407.97	3,549.67



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 28 16 16-0653	Bottom Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0644)</small>		
26 28 16 16-0654	EA 800 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480).....	8,069.50	1,479.03
26 28 16 16-0655	EA 1,200 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480).....	9,208.63	1,774.84
26 28 16 16-0656	EA 1,600 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480).....	10,179.87	2,070.64
26 28 16 16-0657	EA 2,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480).....	11,345.77	2,366.45
26 28 16 16-0658	EA 2,500 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480).....	12,582.25	2,662.25
26 28 16 16-0659	EA 3,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480).....	17,128.20	2,958.06
26 28 16 16-0660	EA 4,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480).....	23,379.05	3,549.67

26 29 Low-Voltage Controllers (26 20)

26 29 13 Enclosed Controllers (26 29)

26 29 13 13 Across-The-Line Motor Controllers (26 29 13)

26 29 13 13-0001 Manual Motor Starters (26 29 13 13)

26 29 13 13-0002 Fractional HP Manual Motor Starters (26 29 13 13-0001)

26 29 13 13-0003	EA NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....	260.94	74.05
	<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.13	
	<i>For Oversized Enclosure, Add</i>	31.48	
	<i>For Pilot Light, Add</i>	46.18	
26 29 13 13-0004	EA NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	341.59	96.26
	<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.13	
	<i>For Oversized Enclosure, Add</i>	31.48	
	<i>For Pilot Light, Add</i>	46.18	
26 29 13 13-0005	EA NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	292.42	74.05
	<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.13	
	<i>For Oversized Enclosure, Add</i>	31.48	
	<i>For Pilot Light, Add</i>	46.18	
26 29 13 13-0006	EA NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	373.07	96.26
	<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.13	
	<i>For Oversized Enclosure, Add</i>	31.48	
	<i>For Pilot Light, Add</i>	46.18	
26 29 13 13-0007	EA NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	274.58	74.05
	<i>For Oversized Enclosure, Add</i>	31.48	
26 29 13 13-0008	EA NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	359.43	96.26
	<i>For Oversized Enclosure, Add</i>	31.48	
26 29 13 13-0009	EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	536.13	88.86
	<i>For Pilot Light, Add</i>	120.69	
26 29 13 13-0010	EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	619.92	111.08
	<i>For Pilot Light, Add</i>	120.69	
26 29 13 13-0011	EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	567.61	88.86
26 29 13 13-0012	EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	648.26	111.08

26 29 13 13-0013 Non Reversing Manual Motor Starters (26 29 13 13-0001)

26 29 13 13-0014	EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1).....	214.95	74.05
	Note: NEMA 1 or flush cover plate installation.		
	<i>For Oversize Enclosure, Add</i>	15.19	
	<i>For Pilot Light, Add</i>	72.91	
26 29 13 13-0015	EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....	343.43	96.26
	Note: NEMA 1 or flush cover plate installation.		
	<i>For Oversize Enclosure, Add</i>	15.19	
	<i>For Pilot Light, Add</i>	72.91	
26 29 13 13-0016	EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	241.90	81.46
	Note: NEMA 1 or flush cover plate installation.		
	<i>For Oversize Enclosure, Add</i>	15.19	
	<i>For Pilot Light, Add</i>	72.91	
26 29 13 13-0017	EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	371.39	103.67
	Note: NEMA 1 or flush cover plate installation.		
	<i>For Oversize Enclosure, Add</i>	15.19	
	<i>For Pilot Light, Add</i>	72.91	
26 29 13 13-0018	EA NEMA 1, Non Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....	244.31	74.05
	Note: NEMA 1 or flush cover plate installation.		
	<i>For Oversize Enclosure, Add</i>	15.19	
	<i>For Pilot Light, Add</i>	72.91	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0019	EA		NEMA 1, Non Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	373.81	96.26
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	15.19	
			<i>For Pilot Light, Add</i>	72.91	
26 29 13 13-0020	EA		NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	495.70	88.86
			<i>For Pilot Light, Add</i>	115.44	
26 29 13 13-0021	EA		NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	613.04	111.08
			<i>For Pilot Light, Add</i>	115.44	
26 29 13 13-0022	EA		NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	523.68	96.26
			<i>For Pilot Light, Add</i>	115.44	
26 29 13 13-0023	EA		NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	637.98	118.48
			<i>For Pilot Light, Add</i>	115.44	
26 29 13 13-0024	EA		NEMA 3R, 7 And 9, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	524.05	88.86
26 29 13 13-0025	EA		NEMA 3R, 7 And 9, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	649.49	111.08
26 29 13 13-0026	EA		Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	156.33	51.83
			<i>For Pilot Light, Add</i>	72.91	
26 29 13 13-0027	EA		Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	284.82	74.05
			<i>For Pilot Light, Add</i>	72.91	
26 29 13 13-0028	EA		Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	183.29	59.24
			<i>For Pilot Light, Add</i>	72.91	
26 29 13 13-0029	EA		Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	311.77	81.46
			<i>For Pilot Light, Add</i>	72.91	
26 29 13 13-0030			Reversing Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0031	EA		NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11).....	557.21	133.29
			<i>For Pilot Light, Add</i>	117.47	
26 29 13 13-0032	EA		NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22).....	802.02	177.72
			<i>For Pilot Light, Add</i>	117.47	
26 29 13 13-0033			Two Speed Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0034	EA		NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11).....	557.21	133.29
26 29 13 13-0035	EA		NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	802.02	177.72
26 29 13 13-0036			Non-Reversing Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0037	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1).....	499.93	88.86
26 29 13 13-0038	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1).....	499.93	88.86
26 29 13 13-0039	EA		NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11).....	1,008.11	103.67
26 29 13 13-0040	EA		NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1).....	1,008.11	103.67
26 29 13 13-0041	EA		NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1).....	1,306.17	103.67
26 29 13 13-0042	EA		Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1).....	633.45	103.67
26 29 13 13-0043	EA		Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1).....	424.02	66.65
26 29 13 13-0044	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	590.31	96.26
26 29 13 13-0045	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	590.31	96.26
26 29 13 13-0046	EA		NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	1,202.39	111.08
26 29 13 13-0047	EA		NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	1,202.39	111.08
26 29 13 13-0048	EA		NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,523.53	111.08
26 29 13 13-0049	EA		Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	723.82	111.08
26 29 13 13-0050	EA		Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1).....	514.40	74.05
26 29 13 13-0051	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	767.78	103.67
26 29 13 13-0052	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	767.78	103.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0053 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12)	1,425.00	118.48
26 29 13 13-0054 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2)	1,425.00	118.48
26 29 13 13-0055 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2)	1,732.50	118.48
26 29 13 13-0056 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2)	904.46	118.48
26 29 13 13-0057 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2)	695.02	81.46
26 29 13 13-0058 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2)	619.41	111.08
26 29 13 13-0059 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2)	619.41	111.08
26 29 13 13-0060 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12)	1,127.59	125.89
26 29 13 13-0061 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2)	1,127.59	125.89
26 29 13 13-0062 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2)	1,434.04	125.89
26 29 13 13-0063 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2)	753.98	125.89
26 29 13 13-0064 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2)	546.64	88.86
26 29 13 13-0065 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3)	709.79	118.48
26 29 13 13-0066 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3)	709.79	118.48
26 29 13 13-0067 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13)	1,321.86	133.29
26 29 13 13-0068 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3)	1,321.86	133.29
26 29 13 13-0069 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3)	1,650.35	133.29
26 29 13 13-0070 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3)	843.30	133.29
26 29 13 13-0071 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3)	633.88	96.26
26 29 13 13-0072 Reversing Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0073 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1)	1,411.42	155.51
26 29 13 13-0074 EA NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1)	1,411.42	155.51
26 29 13 13-0075 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1)	1,233.36	111.08
26 29 13 13-0076 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1)	1,664.58	170.32
26 29 13 13-0077 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1)	1,486.52	125.89
26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0079 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1)	1,411.42	155.51
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1)	1,233.36	111.08
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1)	1,664.58	170.32
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1)	1,486.52	125.89
26 29 13 13-0083 Magnetic Motor Starters <small>(26 29 13 13)</small>		
26 29 13 13-0084 Non Reversing, Magnetic Contactors <small>(26 29 13 13-0083)</small>		
26 29 13 13-0085 Open Enclosure, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0086 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO11)	597.40	148.11
<i>For Factory Installed Accessory, Deduct</i>	-296.20	
26 29 13 13-0087 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO12)	671.11	162.91
<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0088 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO5)	641.48	148.11
<i>For Factory Installed Accessory, Deduct</i>	-296.20	
26 29 13 13-0089 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO1)	716.24	162.91
<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0090 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO2)	789.93	177.72
<i>For Factory Installed Accessory, Deduct</i>	-355.44	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 29	Low-Voltage Controllers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0091 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO3).....	997.39	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0092 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO4).....	1,251.02	266.58
<i>For Factory Installed Accessory, Deduct</i>	-533.17	
26 29 13 13-0093 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO5).....	744.57	162.91
<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0094 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO1).....	818.26	177.72
<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0095 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO2).....	894.06	192.54
<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0096 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO3).....	1,146.99	259.18
<i>For Factory Installed Accessory, Deduct</i>	-518.35	
26 29 13 13-0097 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,399.57	303.61
<i>For Factory Installed Accessory, Deduct</i>	-607.21	
26 29 13 13-0098 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,223.36	177.72
<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0099 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,369.95	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0100 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,787.76	296.20
<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0101 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,819.13	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0102 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO2).....	2,087.91	296.20
<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0103 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,653.72	370.25
<i>For Factory Installed Accessory, Deduct</i>	-740.51	
26 29 13 13-0104 EA Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,758.95	444.31
<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0105 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO1).....	4,058.98	370.25
<i>For Factory Installed Accessory, Deduct</i>	-740.51	
26 29 13 13-0106 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO2).....	4,476.80	444.31
<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0107 EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO3).....	6,029.11	518.35
<i>For Factory Installed Accessory, Deduct</i>	-1,036.71	
26 29 13 13-0108 EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO1).....	8,079.67	444.31
<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0109 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO2).....	9,004.52	592.40
<i>For Factory Installed Accessory, Deduct</i>	-1,184.81	
26 29 13 13-0110 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHO2).....	23,122.67	888.61
<i>For Factory Installed Accessory, Deduct</i>	-1,777.21	
26 29 13 13-0111 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJO2).....	33,130.24	1,332.91
<i>For Factory Installed Accessory, Deduct</i>	-2,665.82	
26 29 13 13-0112 NEMA 1, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0113 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG11).....	629.94	148.11
<i>For Factory Installed Accessory, Deduct</i>	-296.20	
26 29 13 13-0114 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG12).....	703.64	162.91
<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0115 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG5).....	674.01	148.11
<i>For Factory Installed Accessory, Deduct</i>	-296.20	
26 29 13 13-0116 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG1).....	749.82	162.91
<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0117 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG2).....	823.51	177.72
<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0118 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG3).....	1,033.07	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0119 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,287.75	266.58
<i>For Factory Installed Accessory, Deduct</i>	-533.17	
26 29 13 13-0120 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG5).....	779.21	162.91
<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0121 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG1).....	854.99	177.72
<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0122 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG2).....	928.69	192.54
<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0123 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG3).....	1,182.67	259.18
<i>For Factory Installed Accessory, Deduct</i>	-518.35	
26 29 13 13-0124 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG4).....	1,434.20	303.61
<i>For Factory Installed Accessory, Deduct</i>	-607.21	
26 29 13 13-0125 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG1).....	1,378.69	177.72
<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0126 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG2).....	1,526.33	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0127 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG3).....	1,943.09	296.20
<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0128 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG1).....	2,124.53	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0129 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG2).....	2,392.27	296.20
<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0130 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG3).....	2,959.12	370.25
<i>For Factory Installed Accessory, Deduct</i>	-740.51	
26 29 13 13-0131 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG1).....	4,691.82	370.25
<i>For Factory Installed Accessory, Deduct</i>	-740.51	
26 29 13 13-0132 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG2).....	5,109.63	444.31
<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0133 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGG2).....	10,157.90	592.40
<i>For Factory Installed Accessory, Deduct</i>	-1,184.81	
26 29 13 13-0134 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHG2).....	28,194.82	888.61
<i>For Factory Installed Accessory, Deduct</i>	-1,777.21	
26 29 13 13-0135 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJG2).....	38,217.09	1,332.91
<i>For Factory Installed Accessory, Deduct</i>	-2,665.82	
26 29 13 13-0136 NEMA 12, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0137 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA1).....	929.28	162.91
<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0138 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA2).....	1,002.97	177.72
<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0139 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCA2).....	1,108.15	192.54
<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0140 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA1).....	1,706.13	177.72
<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0141 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA2).....	1,854.82	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0142 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA1).....	2,512.84	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0143 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA2).....	2,779.52	296.20
<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0144 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFA2).....	6,395.25	444.31
<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0145 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGA2).....	13,448.03	592.40
<i>For Factory Installed Accessory, Deduct</i>	-1,184.81	
26 29 13 13-0146 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHA2).....	32,229.04	888.61
<i>For Factory Installed Accessory, Deduct</i>	-1,777.21	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0147			NEMA 4/4X, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small> Note: Brushed stainless steel enclosure.		
26 29 13 13-0148	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBW12).....	1,347.20	177.72
			<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0149	EA		Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW11).....	1,393.38	177.72
			<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0150	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW12).....	1,467.08	192.54
			<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0151	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW13).....	1,721.06	259.18
			<i>For Factory Installed Accessory, Deduct</i>	-518.35	
26 29 13 13-0152	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDW12).....	2,603.10	222.15
			<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0153	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEW12).....	3,916.12	296.20
			<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0154	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFW12).....	7,711.31	444.31
			<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0155	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGW12).....	13,448.03	592.40
			<i>For Factory Installed Accessory, Deduct</i>	-1,184.81	
26 29 13 13-0156	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHW2).....	35,667.15	888.61
			<i>For Factory Installed Accessory, Deduct</i>	-1,777.21	
26 29 13 13-0157			NEMA 7/9, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small> Note: Bolted cast iron enclosure.		
26 29 13 13-0158	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBT2).....	2,646.35	236.97
			<i>For Factory Installed Accessory, Deduct</i>	-473.92	
26 29 13 13-0159			Non Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0160			Open Enclosure, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0161	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO11).....	701.30	148.11
			<i>For Factory Installed Accessory, Deduct</i>	-296.20	
26 29 13 13-0162	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO12).....	730.93	162.91
			<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0163	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO1).....	782.36	162.91
			<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0164	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO2).....	864.44	177.72
			<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0165	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO4).....	1,382.20	266.58
			<i>For Factory Installed Accessory, Deduct</i>	-533.17	
26 29 13 13-0166	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO1).....	887.53	177.72
			<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0167	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO3).....	1,035.74	192.54
			<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0168	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO2).....	1,079.82	192.54
			<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0169	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO6).....	1,318.87	177.72
			<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0170	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO1).....	1,505.34	222.15
			<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0171	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEO1).....	2,311.45	296.20
			<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0172	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFO1).....	4,821.03	444.31
			<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0173	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGO1).....	10,789.69	592.40
			<i>For Factory Installed Accessory, Deduct</i>	-1,184.81	
26 29 13 13-0174	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHO2).....	24,609.78	888.61
			<i>For Factory Installed Accessory, Deduct</i>	-1,777.21	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0175	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SJO2).....	35,472.69	1,332.91
			<i>For Factory Installed Accessory, Deduct</i>	-2,665.82	
26 29 13 13-0176			NEMA 1, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0177	EA		Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG1).....	735.93	148.11
			<i>For Factory Installed Accessory, Deduct</i>	-296.20	
26 29 13 13-0178	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG12).....	765.56	162.91
			<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0179	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG1).....	816.99	162.91
			<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0180	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG2).....	899.07	177.72
			<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0181	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG1).....	921.11	177.72
			<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0182	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG3).....	1,004.26	192.54
			<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0183	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG2).....	1,115.50	192.54
			<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0184	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG6).....	1,475.24	177.72
			<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0185	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG1).....	1,661.71	222.15
			<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0186	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEG1).....	2,616.85	296.20
			<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0187	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFG1).....	5,453.87	444.31
			<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0188	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGG1).....	11,946.22	592.40
			<i>For Factory Installed Accessory, Deduct</i>	-1,184.81	
26 29 13 13-0189			NEMA 12, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0190	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA1).....	996.45	162.91
			<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0191	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA2).....	1,078.53	177.72
			<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0192	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA1).....	1,100.57	177.72
			<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0193	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA3).....	1,183.72	192.54
			<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0194	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA2).....	1,294.96	192.54
			<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0195	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA6).....	1,803.73	177.72
			<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0196	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA1).....	1,989.15	222.15
			<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0197	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEA1).....	3,004.11	296.20
			<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0198	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFA1).....	6,738.43	444.31
			<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0199	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGA1).....	15,233.20	592.40
			<i>For Factory Installed Accessory, Deduct</i>	-1,184.81	
26 29 13 13-0200	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHA2).....	36,123.67	888.61
			<i>For Factory Installed Accessory, Deduct</i>	-1,777.21	
26 29 13 13-0201			NEMA 3R, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0202	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH1).....	996.45	162.91
			<i>For Factory Installed Accessory, Deduct</i>	-325.83	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0203	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH2).....	1,078.53	177.72
		<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0204	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH1).....	1,100.57	177.72
		<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0205	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH3).....	1,183.72	192.54
		<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0206	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH2).....	1,294.96	192.54
		<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0207	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH6).....	1,803.73	177.72
		<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0208	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH1).....	1,989.15	222.15
		<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0209	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEH1).....	3,004.11	296.20
		<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0210	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFH1).....	6,738.43	444.31
		<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0211		NEMA 3R/4/4X/7/9, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT4).....	2,759.93	251.77
		<i>For Factory Installed Accessory, Deduct</i>	-503.54	
26 29 13 13-0213	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR1).....	3,370.73	251.77
		<i>For Factory Installed Accessory, Deduct</i>	-503.54	
26 29 13 13-0214	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR3).....	3,475.92	266.58
		<i>For Factory Installed Accessory, Deduct</i>	-533.17	
26 29 13 13-0215	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDR1).....	5,343.41	296.20
		<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0216	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SET43).....	6,448.65	370.25
		<i>For Factory Installed Accessory, Deduct</i>	-740.51	
26 29 13 13-0217	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFT41).....	10,249.08	518.35
		<i>For Factory Installed Accessory, Deduct</i>	-1,036.71	
26 29 13 13-0218		NEMA 4/4X, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Brushed stainless steel enclosure.		
26 29 13 13-0219	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW11).....	1,339.63	162.91
		<i>For Factory Installed Accessory, Deduct</i>	-325.83	
26 29 13 13-0220	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW12).....	1,422.77	177.72
		<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0221	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW11).....	1,459.50	177.72
		<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0222	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW13).....	1,542.64	192.54
		<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0223	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW12).....	1,653.89	192.54
		<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0224	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW16).....	2,549.91	177.72
		<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0225	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW11).....	4,139.66	296.20
		<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0226	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW11).....	8,053.44	444.31
		<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0227	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGW11).....	17,761.41	592.40
		<i>For Factory Installed Accessory, Deduct</i>	-1,184.81	
26 29 13 13-0228		NEMA 4X, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Glass polyester enclosure.		
26 29 13 13-0229	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW21).....	2,738.48	222.15
		<i>For Factory Installed Accessory, Deduct</i>	-444.31	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0230	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW21)	5,027.52	296.20
			<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0231	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SF21).....	9,845.96	444.31
			<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0232			NEMA 7/9, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Bolted cast iron enclosure.		
26 29 13 13-0233	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT1).....	2,668.39	236.97
			<i>For Factory Installed Accessory, Deduct</i>	-473.92	
26 29 13 13-0234	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT2)	2,759.93	251.77
			<i>For Factory Installed Accessory, Deduct</i>	-503.54	
26 29 13 13-0235	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT1).....	2,797.71	251.77
			<i>For Factory Installed Accessory, Deduct</i>	-503.54	
26 29 13 13-0236	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT3)	2,885.06	266.58
			<i>For Factory Installed Accessory, Deduct</i>	-533.17	
26 29 13 13-0237	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT2).....	3,013.10	266.58
			<i>For Factory Installed Accessory, Deduct</i>	-533.17	
26 29 13 13-0238	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDT1)	4,394.68	296.20
			<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0239			Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0240			Open Enclosure, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13 13-0241	EA		Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13).....	1,290.76	192.54
			<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0242	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16).....	1,356.88	192.54
			<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0243	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1).....	1,499.85	207.34
			<i>For Factory Installed Accessory, Deduct</i>	-414.68	
26 29 13 13-0244	EA		Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2).....	1,558.86	222.15
			<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0245	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....	1,595.59	222.15
			<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0246	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2).....	1,707.06	236.97
			<i>For Factory Installed Accessory, Deduct</i>	-473.92	
26 29 13 13-0247	EA		Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3).....	1,782.98	259.18
			<i>For Factory Installed Accessory, Deduct</i>	-518.35	
26 29 13 13-0248	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7).....	1,820.76	259.18
			<i>For Factory Installed Accessory, Deduct</i>	-518.35	
26 29 13 13-0249	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....	3,057.64	296.20
			<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0250	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1)	4,983.70	444.31
			<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0251	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	11,334.49	666.46
			<i>For Factory Installed Accessory, Deduct</i>	-1,332.91	
26 29 13 13-0252	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....	20,992.21	888.61
			<i>For Factory Installed Accessory, Deduct</i>	-1,777.21	
26 29 13 13-0253	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	67,539.12	1,629.12
			<i>For Factory Installed Accessory, Deduct</i>	-3,258.22	
26 29 13 13-0254			NEMA 1, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13 13-0255	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	1,324.11	177.72
			<i>For Factory Installed Accessory, Deduct</i>	-355.44	
26 29 13 13-0256	EA		Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15).....	1,385.22	192.54
			<i>For Factory Installed Accessory, Deduct</i>	-385.06	
26 29 13 13-0257	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16).....	1,423.00	192.54
			<i>For Factory Installed Accessory, Deduct</i>	-385.06	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0258 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1)	1,562.82	207.34
<i>For Factory Installed Accessory, Deduct</i>	-414.68	
26 29 13 13-0259 EA Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2)	1,623.93	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0260 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4)	1,661.71	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0261 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2)	1,801.52	236.97
<i>For Factory Installed Accessory, Deduct</i>	-473.92	
26 29 13 13-0262 EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6)	1,877.43	259.18
<i>For Factory Installed Accessory, Deduct</i>	-518.35	
26 29 13 13-0263 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8)	1,915.21	259.18
<i>For Factory Installed Accessory, Deduct</i>	-518.35	
26 29 13 13-0264 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2)	3,303.22	296.20
<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0265 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2)	5,408.74	444.31
<i>For Factory Installed Accessory, Deduct</i>	-888.61	
26 29 13 13-0266 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3)	12,115.31	666.46
<i>For Factory Installed Accessory, Deduct</i>	-1,332.91	
26 29 13 13-0267 NEMA 12, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13 13-0268 EA Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2)	1,892.60	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0269 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4)	1,930.38	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0270 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4)	2,183.88	259.18
<i>For Factory Installed Accessory, Deduct</i>	-518.35	
26 29 13 13-0271 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1)	3,752.40	296.20
<i>For Factory Installed Accessory, Deduct</i>	-592.40	
26 29 13 13-0272 NEMA 4X, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
Note: Brushed stainless steel enclosure.		
26 29 13 13-0273 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14)	2,348.07	222.15
<i>For Factory Installed Accessory, Deduct</i>	-444.31	
26 29 13 13-0274 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11)	2,758.65	236.97
<i>For Factory Installed Accessory, Deduct</i>	-473.92	
26 29 13 13-0275 Magnetic Contactor/Starters Accessories <small>(26 29 13 13-0083)</small>		
26 29 13 13-0276 EA NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2)	175.86	18.51
<i>For Factory Installed Accessory, Deduct</i>	-37.03	
26 29 13 13-0277 EA NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3)	294.34	18.51
<i>For Factory Installed Accessory, Deduct</i>	-37.03	
26 29 13 13-0278 EA NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2)	175.86	18.51
<i>For Factory Installed Accessory, Deduct</i>	-37.03	
26 29 13 13-0279 EA NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8)	294.34	18.51
<i>For Factory Installed Accessory, Deduct</i>	-37.03	
26 29 13 13-0280 EA NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R)	294.34	18.51
<i>For Factory Installed Accessory, Deduct</i>	-37.03	
26 29 13 13-0281 EA Internal Nonconvertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11)	148.10	14.81
<i>For Factory Installed Accessory, Deduct</i>	-29.62	
26 29 13 13-0282 EA External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6)	132.54	14.81
<i>For Factory Installed Accessory, Deduct</i>	-29.62	
26 29 13 13-0283 EA External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8)	175.86	18.51
<i>For Factory Installed Accessory, Deduct</i>	-37.03	
26 29 13 13-0284 EA External Field Non Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13)	148.10	14.81
<i>For Factory Installed Accessory, Deduct</i>	-29.62	
26 29 13 13-0285 EA External Field Non Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15)	197.40	18.51
<i>For Factory Installed Accessory, Deduct</i>	-37.03	
26 29 13 13-0286 EA 30 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6)	218.71	14.81
<i>For Factory Installed Accessory, Deduct</i>	-29.62	
26 29 13 13-0287 EA 45 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11)	373.10	14.81
<i>For Factory Installed Accessory, Deduct</i>	-29.62	
26 29 13 13-0288 EA 60 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21)	395.83	14.81
<i>For Factory Installed Accessory, Deduct</i>	-29.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0289 EA 30 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8)	473.85	18.51
For Factory Installed Accessory, Deduct	-37.03	
26 29 13 13-0290 EA 45 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13)	822.12	18.51
For Factory Installed Accessory, Deduct	-37.03	
26 29 13 13-0291 EA 60 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23)	822.12	18.51
For Factory Installed Accessory, Deduct	-37.03	
26 29 13 13-0292 EA Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1)	53.47	11.11
For Factory Installed Accessory, Deduct	-22.22	
26 29 13 13-0293 EA 1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3)	106.21	14.81
For Factory Installed Accessory, Deduct	-29.62	
26 29 13 13-0294 EA 2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4)	139.95	18.51
For Factory Installed Accessory, Deduct	-37.03	
26 29 13 13-0295 EA Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1)	111.23	18.51
For Factory Installed Accessory, Deduct	-37.03	
26 29 13 13-0296 EA Terminal Block, Contactor/Starter Accessory (Square D 9999T7)	62.08	11.11
For Factory Installed Accessory, Deduct	-22.22	
26 29 13 13-0297 EA Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1)	39.34	11.11
For Factory Installed Accessory, Deduct	-22.22	
26 29 13 13-0298 EA 1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39)	191.19	14.81
For Factory Installed Accessory, Deduct	-29.62	
26 29 13 13-0299 EA 2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40)	327.85	18.51
For Factory Installed Accessory, Deduct	-37.03	
26 29 13 13-0300 Definite Purpose Starters (26 29 13 13)		
26 29 13 13-0301 Open Enclosure, Definite Purpose Starter (26 29 13 13-0300)		
26 29 13 13-0302 EA Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13)	667.14	177.72
For Factory Installed Accessory, Deduct	-355.44	
26 29 13 13-0303 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22)	666.09	177.72
For Factory Installed Accessory, Deduct	-355.44	
26 29 13 13-0304 EA Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23)	720.89	192.54
For Factory Installed Accessory, Deduct	-385.06	
26 29 13 13-0305 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32)	704.92	177.72
For Factory Installed Accessory, Deduct	-355.44	
26 29 13 13-0306 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33)	766.02	192.54
For Factory Installed Accessory, Deduct	-385.06	
26 29 13 13-0307 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42)	738.50	177.72
For Factory Installed Accessory, Deduct	-355.44	
26 29 13 13-0308 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43)	863.05	222.15
For Factory Installed Accessory, Deduct	-444.31	
26 29 13 13-0309 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52)	950.16	222.15
For Factory Installed Accessory, Deduct	-444.31	
26 29 13 13-0310 EA Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53)	1,187.92	259.18
For Factory Installed Accessory, Deduct	-518.35	
26 29 13 13-0311 NEMA 1, Definite Purpose Starter (26 29 13 13-0300)		
26 29 13 13-0312 EA NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12)	674.26	162.91
For Factory Installed Accessory, Deduct	-325.83	
26 29 13 13-0313 EA NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13)	729.06	177.72
For Factory Installed Accessory, Deduct	-355.44	
26 29 13 13-0314 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22)	726.96	177.72
For Factory Installed Accessory, Deduct	-355.44	
26 29 13 13-0315 EA NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23)	784.91	192.54
For Factory Installed Accessory, Deduct	-385.06	
26 29 13 13-0316 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32)	766.84	177.72
For Factory Installed Accessory, Deduct	-355.44	
26 29 13 13-0317 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33)	828.99	192.54
For Factory Installed Accessory, Deduct	-385.06	
26 29 13 13-0318 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42)	802.52	177.72
For Factory Installed Accessory, Deduct	-355.44	
26 29 13 13-0319 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43)	926.02	222.15
For Factory Installed Accessory, Deduct	-444.31	
26 29 13 13-0320 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52)	1,009.98	222.15
For Factory Installed Accessory, Deduct	-444.31	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13	13-0321	EA	NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53) <i>For Factory Installed Accessory, Deduct</i>	1,248.79 -578.35	259.18
26 29 13	13-0322		Definite Purpose Starter Accessory <small>(26 29 13 13-0300)</small>		
26 29 13	13-0323	EA	Start-Stop Push Button Kit, Definite Purpose Starter Accessory <i>Note: Or Hand-Off-Auto Selector Switch Kit</i> <i>For Factory Installed Accessory, Deduct</i>	197.40 -37.03	18.51
26 29 13	13-0324		Panel Mounted Miniature Contactor <small>(26 29 13 13)</small>		
26 29 13	13-0325		Non Reversing, Panel Mounted Miniature Contactor <small>(26 29 13 13-0324)</small>		
26 29 13	13-0326	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	207.93	74.05
26 29 13	13-0327	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	241.62	81.46
26 29 13	13-0328	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	241.62	81.46
26 29 13	13-0329	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	267.98	88.86
26 29 13	13-0330	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	226.82	74.05
26 29 13	13-0331	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	237.32	74.05
26 29 13	13-0332	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	259.46	81.46
26 29 13	13-0333	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	269.96	81.46
26 29 13	13-0334	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	265.76	81.46
26 29 13	13-0335	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	269.96	81.46
26 29 13	13-0336	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	288.97	88.86
26 29 13	13-0337	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	276.25	81.46
26 29 13	13-0338	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	299.46	88.86
26 29 13	13-0339	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	278.35	81.46
26 29 13	13-0340	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	278.35	81.46
26 29 13	13-0341	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	309.96	88.86
26 29 13	13-0342	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	309.96	88.86
26 29 13	13-0343		Reversing, Panel Mounted Miniature Contactor <small>(26 29 13 13-0324)</small>		
26 29 13	13-0344	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	284.54	74.05
26 29 13	13-0345	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	305.53	74.05
26 29 13	13-0346	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	338.17	81.46
26 29 13	13-0347	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	338.17	81.46
26 29 13	13-0348	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	359.16	81.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0349 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	378.17	88.86
26 29 13 13-0350 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	378.17	88.86
26 29 13 13-0351 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	323.37	74.05
26 29 13 13-0352 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	344.36	74.05
26 29 13 13-0353 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	374.91	81.46
26 29 13 13-0354 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	395.90	81.46
26 29 13 13-0355 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	421.20	88.86
26 29 13 13-0356 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	442.19	88.86
26 29 13 13-0357 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	363.36	81.46
26 29 13 13-0358 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	412.69	81.46
26 29 13 13-0359 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	465.28	88.86
26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories <small>(26 29 13 13-0324)</small>		
26 29 13 13-0361 EA 2 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02)	90.53	37.03
26 29 13 13-0362 EA 4 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40)	98.63	37.03
26 29 13 13-0363 EA Electronic Time Delay Contact, 2 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	113.30	37.03
26 29 13 13-0364 EA Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301).....	142.49	37.03
26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole <small>(26 29 13 13)</small>		
26 29 13 13-0366 NEMA 1 Enclosure <small>(26 29 13 13-0365)</small>		
26 29 13 13-0367 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	7,431.88	709.94
<i>For NEMA 4, Add</i>	<i>747.73</i>	
26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	12,822.46	946.58
<i>For NEMA 4, Add</i>	<i>1,365.78</i>	
26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	22,183.06	1,124.07
<i>For NEMA 4, Add</i>	<i>2,492.76</i>	
26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	53,429.58	1,375.50
<i>For NEMA 4, Add</i>	<i>6,336.33</i>	
26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	85,035.90	1,760.05
<i>For NEMA 4, Add</i>	<i>10,189.30</i>	
26 29 13 13-0372 NEMA 12 Enclosure <small>(26 29 13 13-0365)</small>		
26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	7,382.05	725.02
26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	12,731.45	948.06
26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	22,016.95	1,120.51
26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	53,007.36	1,369.43
26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	84,356.94	1,760.79
26 29 13 13-0378 Factory Modifications Pilot Devices <small>(26 29 13 13-0365)</small>		
26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	176.17	
26 29 13 13-0380 EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	194.29	
26 29 13 13-0381 EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	330.72	
26 29 13 13-0382 EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	179.69	
26 29 13 13-0383 EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	258.38	
26 29 13 13-0384 EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	129.19	
26 29 13 13-0385 EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	421.67	
26 29 13 13-0386 Factory Modifications Meters <small>(26 29 13 13-0365)</small>		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 29	Low-Voltage Controllers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0387	EA	Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,694.96	
26 29 13 13-0388	EA	Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,637.10	
26 29 13 13-0389	EA	Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	578.77	
26 29 13 13-0390	EA	Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	479.57	
26 29 13 13-0391		Factory Modifications Main Circuit Breakers <small>(26 29 13 13-0365)</small>		
26 29 13 13-0392	EA	Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker	2,240.14	
26 29 13 13-0393	EA	Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker	4,096.94	
26 29 13 13-0394	EA	Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker	8,714.59	
26 29 13 13-0395		Factory Modifications Addition <small>(26 29 13 13-0365)</small>		
		Note: For reversing service auto transformer type.		
26 29 13 13-0396	EA	Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	376.21	
26 29 13 13-0397	EA	Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	376.21	
26 29 13 13-0398	EA	Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	376.21	
26 29 13 13-0399	EA	Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	376.21	
26 29 13 13-0400		Combination Starters Non-Reversing <small>(26 29 13 13)</small>		
26 29 13 13-0401		240-600 Volt, 3-Pole <small>(26 29 13 13-0400)</small>		
26 29 13 13-0402		NEMA 1 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0403	EA	Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,850.99	340.18
		<i>For Electronic Overloads, Add</i>	221.59	
26 29 13 13-0404	EA	Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,302.09	532.45
		<i>For Electronic Overloads, Add</i>	233.76	
26 29 13 13-0405	EA	Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,180.54	621.20
		<i>For Electronic Overloads, Add</i>	370.12	
26 29 13 13-0406	EA	Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	4,783.10	769.09
		<i>For Electronic Overloads, Add</i>	616.06	
26 29 13 13-0407	EA	Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	8,719.25	1,227.59
		<i>For Electronic Overloads, Add</i>	1,188.30	
26 29 13 13-0408	EA	Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	17,123.32	1,538.20
		<i>For Electronic Overloads, Add</i>	2,667.98	
26 29 13 13-0409		NEMA 1 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0410	EA	Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,312.37	340.18
		<i>For Electronic Overloads, Add</i>	309.25	
26 29 13 13-0411	EA	Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,763.47	532.45
		<i>For Electronic Overloads, Add</i>	321.42	
26 29 13 13-0412	EA	Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,629.10	621.20
		<i>For Electronic Overloads, Add</i>	455.35	
26 29 13 13-0413	EA	Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	5,026.60	769.09
		<i>For Electronic Overloads, Add</i>	662.33	
26 29 13 13-0414	EA	Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	10,116.18	1,227.59
		<i>For Electronic Overloads, Add</i>	1,453.71	
26 29 13 13-0415	EA	Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	20,827.13	1,538.20
		<i>For Electronic Overloads, Add</i>	3,371.71	
26 29 13 13-0416		Factory Modifications For NEMA 1 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0417	EA	Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	210.11	
26 29 13 13-0418	EA	H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	493.49	
26 29 13 13-0419	EA	Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	340.59	
26 29 13 13-0420		NEMA 4 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0421	EA	Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,309.56	443.71
		<i>For Electronic Overloads, Add</i>	455.35	
26 29 13 13-0422	EA	Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,693.18	621.20
		<i>For Electronic Overloads, Add</i>	467.53	
26 29 13 13-0423	EA	Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	5,214.26	680.35
		<i>For Electronic Overloads, Add</i>	730.51	
26 29 13 13-0424	EA	Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	8,192.32	828.26
		<i>For Electronic Overloads, Add</i>	1,244.30	
26 29 13 13-0425	EA	Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	12,948.51	1,227.59
		<i>For Electronic Overloads, Add</i>	1,991.86	
26 29 13 13-0426	EA	Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	27,914.36	1,538.20
		<i>For Electronic Overloads, Add</i>	4,718.28	
26 29 13 13-0427		NEMA 4 With Circuit Breaker <small>(26 29 13 13-0401)</small>		



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0428 EA Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,770.94	443.71
For Electronic Overloads, Add	543.01	
26 29 13 13-0429 EA Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,154.56	621.20
For Electronic Overloads, Add	555.19	
26 29 13 13-0430 EA Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,662.81	680.35
For Electronic Overloads, Add	815.73	
26 29 13 13-0431 EA Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,435.83	828.26
For Electronic Overloads, Add	1,290.57	
26 29 13 13-0432 EA Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	14,345.45	1,227.59
For Electronic Overloads, Add	2,257.27	
26 29 13 13-0433 EA Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	26,466.15	1,538.20
For Electronic Overloads, Add	4,443.12	
26 29 13 13-0434 Factory Modifications For NEMA 4 Enclosure (26 29 13 13-0401)		
26 29 13 13-0435 EA Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	210.13	
26 29 13 13-0436 EA H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	493.49	
26 29 13 13-0437 EA Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	340.59	
26 29 13 13-0438 NEMA 12 With Disconnect Switch (26 29 13 13-0401)		
26 29 13 13-0439 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,909.30	342.40
For Electronic Overloads, Add	232.67	
26 29 13 13-0440 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,363.61	535.85
For Electronic Overloads, Add	245.45	
26 29 13 13-0441 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,277.94	616.32
For Electronic Overloads, Add	388.63	
26 29 13 13-0442 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,945.21	770.28
For Electronic Overloads, Add	646.86	
26 29 13 13-0443 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,031.95	1,232.62
For Electronic Overloads, Add	1,247.71	
26 29 13 13-0444 EA Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	17,825.41	1,540.56
For Electronic Overloads, Add	2,801.38	
26 29 13 13-0445 NEMA 12 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0446 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,460.22	342.40
For Electronic Overloads, Add	337.34	
26 29 13 13-0447 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,917.14	535.85
For Electronic Overloads, Add	350.62	
26 29 13 13-0448 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,846.80	616.32
For Electronic Overloads, Add	496.71	
26 29 13 13-0449 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,343.25	770.28
For Electronic Overloads, Add	722.49	
26 29 13 13-0450 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	10,811.20	1,232.62
For Electronic Overloads, Add	1,585.77	
26 29 13 13-0451 EA Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	22,439.12	1,540.56
For Electronic Overloads, Add	3,677.98	
26 29 13 13-0452 Factory Modifications For NEMA 12 Enclosure (26 29 13 13-0401)		
26 29 13 13-0453 EA Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	208.38	
26 29 13 13-0454 EA H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	489.38	
26 29 13 13-0455 EA Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	337.76	
26 29 13 13-0456 NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0457 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,264.57	709.94
26 29 13 13-0458 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,772.64	946.58
26 29 13 13-0459 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,365.82	1,301.55
26 29 13 13-0460 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,406.54	1,774.84
26 29 13 13-0461 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	14,111.84	2,484.77
26 29 13 13-0462 Factory Modifications For NEMA 7 Or 9 Enclosure (26 29 13 13-0401)		
26 29 13 13-0463 EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,249.53	
26 29 13 13-0464 EA H-O-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,249.53	
26 29 13 13-0465 EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,249.53	
26 29 13 13-0466 Combination Starters Reversing (26 29 13 13)		
26 29 13 13-0467 240-600 Volt, 3 Pole (26 29 13 13-0466)		
26 29 13 13-0468 NEMA 1 With Disconnect Switch (26 29 13 13-0467)		
26 29 13 13-0469 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,302.78	443.71
26 29 13 13-0470 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,715.38	621.20
26 29 13 13-0471 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,848.15	680.35
26 29 13 13-0472 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	5,750.72	828.26
26 29 13 13-0473 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	11,067.53	1,227.59

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0474 NEMA 1 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0475 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,546.21	443.71
26 29 13 13-0476 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,975.24	621.20
26 29 13 13-0477 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,152.35	680.35
26 29 13 13-0478 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,331.92	828.26
26 29 13 13-0479 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	11,890.35	1,227.59
26 29 13 13-0480 NEMA 12 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0481 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,444.34	456.58
26 29 13 13-0482 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,866.42	616.32
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	4,100.62	684.79
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	6,169.08	821.75
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	11,943.75	1,232.62
26 29 13 13-0486 NEMA 12 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0487 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,712.57	456.58
26 29 13 13-0488 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,152.75	616.32
26 29 13 13-0489 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,435.80	684.79
26 29 13 13-0490 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,707.62	821.75
26 29 13 13-0491 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,850.38	1,232.62
26 29 13 13-0492 NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0493 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,198.49	946.58
26 29 13 13-0494 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,637.29	1,183.22
26 29 13 13-0495 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	8,054.71	1,538.20
26 29 13 13-0496 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,679.58	2,011.48
26 29 13 13-0497 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	22,849.80	2,721.42
26 29 13 13-0498 Solid State Motor Controllers <small>(26 29 13 13)</small>		
26 29 13 13-0499 Adjustable Voltage Drives, DC Motors <small>(26 29 13 13-0498)</small>		
26 29 13 13-0500 EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking	1,796.00	266.22
26 29 13 13-0501 EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	2,136.64	266.22
26 29 13 13-0502 Removal And Reinstallation Of Motor Starters <small>(26 29 13 13)</small>		
Note: Includes storage and cleaning.		
26 29 13 13-0503 EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	1,056.45	
26 29 13 13-0504 Auxiliary Devices <small>(26 29 13 13)</small>		
26 29 13 13-0505 EA Normally Open, Auxiliary Contact.....	561.02	147.91
26 29 13 13-0506 EA Normally Closed, Auxiliary Contact.....	561.02	147.91
26 29 13 13-0507 EA Pilot Light Kit.....	587.78	147.91
26 29 23 Variable-Frequency Motor Controllers <small>(26 29)</small>		
26 29 23 00-0001 208/230 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives <small>(26 29 23)</small>		
Note: 1 or 3 phase. Wall mounted. ABB ACH580 Series. Includes full voltage bypass with main input circuit breaker. NEMA 1 enclosure.		
26 29 23 00-0002 EA 3/4 HP, 208/230 Volt Variable Frequency Drive	2,314.65	545.80
For 6-Pulse Drive Package, Deduct	-672.60	
26 29 23 00-0003 EA 1 HP, 208/230 Volt Variable Frequency Drive	2,595.41	596.54
For 6-Pulse Drive Package, Deduct	-774.33	
26 29 23 00-0004 EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive	2,998.25	655.93
For 6-Pulse Drive Package, Deduct	-927.52	
26 29 23 00-0005 EA 2 HP, 208/230 Volt Variable Frequency Drive	3,129.08	630.49
For 6-Pulse Drive Package, Deduct	-1,027.46	
26 29 23 00-0006 EA 3 HP, 208/230 Volt Variable Frequency Drive	3,360.41	687.41
For 6-Pulse Drive Package, Deduct	-1,092.08	
26 29 23 00-0007 EA 5 HP, 208/230 Volt Variable Frequency Drive	3,605.21	687.41
For 6-Pulse Drive Package, Deduct	-1,226.72	
26 29 23 00-0008 EA 7.5 HP, 208/230 Volt Variable Frequency Drive	4,307.13	820.77
For 6-Pulse Drive Package, Deduct	-1,466.08	
26 29 23 00-0009 EA 10 HP, 208/230 Volt Variable Frequency Drive	4,660.73	820.77
For 6-Pulse Drive Package, Deduct	-1,660.56	
26 29 23 00-0010 EA 15 HP, 208/230 Volt Variable Frequency Drive	6,225.24	1,235.82
For 6-Pulse Drive Package, Deduct	-2,064.48	
26 29 23 00-0011 EA 20 HP, 208/230 Volt Variable Frequency Drive	7,204.44	1,235.82
For 6-Pulse Drive Package, Deduct	-2,603.04	
26 29 23 00-0012 EA 25 HP, 208/230 Volt Variable Frequency Drive	8,859.20	1,641.67
For 6-Pulse Drive Package, Deduct	-3,066.80	
26 29 23 00-0013 EA 30 HP, 208/230 Volt Variable Frequency Drive	10,083.20	1,641.67
For 6-Pulse Drive Package, Deduct	-3,740.00	
26 29 23 00-0014 EA 40 HP, 208/230 Volt Variable Frequency Drive	11,144.00	1,641.67
For 6-Pulse Drive Package, Deduct	-4,323.44	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0015 EA 50 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	14,649.62 -5,774.56	2,075.29
26 29 23 00-0016 EA 60 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	17,639.63 -7,001.28	2,455.01
26 29 23 00-0017 EA 75 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	19,815.63 -8,198.08	2,455.01
26 29 23 00-0018 460/480 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives <small>(26 29 23)</small> Note: 3 Phase. ABB ACH580 Series. Includes full voltage bypass with main circuit breaker. NEMA 1 enclosure.		
26 29 23 00-0019 EA 3 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	5,336.86 -1,855.04	982.04
26 29 23 00-0020 EA 5 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	5,500.06 -1,944.80	982.04
26 29 23 00-0021 EA 7.5 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,066.47 -2,049.52	1,170.11
26 29 23 00-0022 EA 10 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,093.67 -2,064.48	1,170.11
26 29 23 00-0023 EA 15 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	8,280.65 -2,603.04	1,773.93
26 29 23 00-0024 EA 20 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	8,661.45 -2,812.48	1,773.93
26 29 23 00-0025 EA 25 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	10,528.30 -3,216.40	2,340.21
26 29 23 00-0026 EA 30 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	11,888.30 -3,964.40	2,340.21
26 29 23 00-0027 EA 40 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	13,302.70 -4,742.32	2,340.21
26 29 23 00-0028 EA 50 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	17,369.12 -6,283.20	2,972.63
26 29 23 00-0029 EA 60 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	22,935.14 -8,736.64	3,525.17
26 29 23 00-0030 EA 75 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	24,240.74 -9,454.72	3,525.17
26 29 23 00-0031 EA 100 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	27,984.12 -11,070.40	3,928.13
26 29 23 00-0032 EA 125 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	29,398.52 -11,848.32	3,928.13
26 29 23 00-0033 EA 150 HP, 480 Volt Variable Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	32,336.12 -13,464.00	3,928.13
26 29 23 00-0034 EA 200 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	37,443.17 -15,378.88	4,740.79
26 29 23 00-0035 EA 250 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	46,335.33 -20,036.82	4,952.37
26 29 23 00-0036 EA 300 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	54,276.06 -23,600.90	5,682.67
26 29 23 00-0037 EA 350 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	62,242.56 -27,453.99	6,163.03
26 29 23 00-0038 EA 400 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	71,879.77 -32,213.67	6,654.80
26 29 23 00-0039 EA 450 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	77,492.22 -34,682.66	7,216.42

END OF SECTION 26

26	26	Electrical
	26 20	Low-Voltage Electrical Distribution
	26 29	Low-Voltage Controllers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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